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ANNUAL REPORT

OF

THE MINES DIVISION

OF THE

Department of Mines and Minerals

OF THE

PROVINCE OF ALBERTA

1953

Edmonton:
Printed by A. Shnitka, Queen's Printer
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Edmonton, Alberta,
February 12th, 1954.

TO THE HON. ERNEST C. MANNING,
Minister of Mines and Minerals.

SIR:

I herewith submit the Report of the Mines Division for the year ending December 31st, 1953.

Respectfully submitted,

J. A. DUTTON,
Director of Mines.

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ANNUAL REPORT OF THE MINES DIVISION FOR THE YEAR ENDING DECEMBER 31, 1953.

J. A. DUTTON, *Director of Mines*
(J. HORNE, *Assistant Director of Mines*)

The output of coal produced from the mines in the Province during the year 1953 was 5,917,423 tons, with a valuation of $32,158,435. This shows a decrease of 1,277,049 tons compared with the tonnage produced in 1952, which was 7,194,472 tons, with a decrease in valuation of $7,815,883.

During the year the number of manshifts totalled 1,141,531. This is a decrease of 380,733 manshifts in comparison with 1952. In that year the number of manshifts totalled 1,522,264.

This reduction in production and manshifts can be attributed to:—

(1) Lack of orders, caused by the extremely mild winter.

(2) The increased use of gas and oil as substitute fuels.

The disposition of coal during the year was as follows:—

Sold for consumption in Alberta	1,045,482
Sold for consumption in other Provinces	2,241,854
Sold to the United States	47,119
Sold to railroad companies	1,625,783
Used making briquettes	633,448
Used making fabricoal	945
Used under colliery boilers	100,196
Used by colliery railroads	1,152
Put to stock	707,048
Put to waste	257,047

The above tonnages include lifted from stock and waste heaps, which are not included in the total output.

The disposition of briquettes during the year was as follows:—

Sold for consumption in Alberta	9,079
Sold for consumption in other Provinces	79,502
Sold to railroad companies	575,262
Put to stock	14,643
Lifted from stock	13,875
Total output of briquettes	664,611

The disposition of fabricoal during the year was as follows:—

Sold for consumption in Alberta	854
Sold for consumption in other Provinces	91
Total output of fabricoal	945

Of the output of coal, 2,535,193 tons were produced from 65 strip mines operating in the Province. During the year, production from stripping operations decreased 153,316 tons, or 6.04 per cent under 1952. In that year the total was 2,688,509 tons.

There was a decrease of 2 strip mines in comparison with 1952, when 67 strip mines were in operation.

During the year 8 quarries produced 1,312,877 tons of shale, clay and limestone, from which 29,645,754 bricks and 26,441 tons of hollow tile were made. In addition to the above output, 195,336 tons of shale, clay and limestone were imported.

There were 146 mines which produced coal during the year, of which 5 were opened, 63 re-opened, 73 closed and 19 abandoned. At December 31st, 1953, 123 mines were in operation.

There were 6,193 men employed during the month of December, this being a decrease of 1,059 in comparison with the corresponding month of 1952.

During the year there was a total of 633 miners' certificates, miners' provisional certificates and miners' permits issued by the Inspectors, enabling the holders to proceed to the coal face as miners. This represents a decrease of 262 in comparison with 1952.

During the year there were 3 first class or mine managers' certificates, 2 second class or overmen's certificates, 9 third class or examiners' certificates, 4 mine surveyors' certificates and 6 first class mine electricians' certificates granted. In addition 5 strip mine managers' certificates, 13 strip mine foremen's certificates and 3 strip mine blasters' certificates were granted. There were also 6 quarry blasters' certificates granted.

Eight examinations were held throughout the Province for coal miners' certificates of competency, and 189 certificates issued to successful candidates. In addition, 28 miners' duplicate certificates were issued by this office.

668 inspections were made under the terms of The Coal Mines Regulation Act, 509 inspections in connection with The Workmen's Compensation Board Regulations and 24 inspections in connection with The Quarries Regulation Act, comprising a total of 1,201 inspections made by the Inspection staff during the year.

Three samples of mine air were taken during the year by the Inspection staff and forwarded to the Chemistry Branch of the Department of Mines and Resources, Ottawa, for analysis. This has been done in addition to the tests made with the M.S.A. methane detector and other gas detectors.

Twenty-five samples of coal were collected and forwarded to the Research Council of Alberta, Edmonton, for analysis. Twenty-seven samples of coal dust were also collected for analysis.

All fatal and serious accidents have been investigated by the Inspectors, who also attended the inquests held in their districts; this being in addition to the regular inspections of the mines. All complaints made to the Department were investigated.

There were 16 prosecutions instituted for contravention of The Coal Mines Regulation Act, made up as follows:—2 owners; 3 managers; 1 overman; 1 examiner; 1 blaster; 3 miners; 1 haulageman; 4 C.N.R. painters. 16 convictions were obtained.

The purchased electrical power by mines was 58,500,593 k.w. hours, this being an increase of 183,550 k.w. hours in comparison with 1952. During the year the number of mines using electrical power was 81, a decrease of 11 under 1952. The number of electrical coal-cutting machines in use was 144, a decrease of 41 under 1952, and the total horsepower of electric motors in use, both above and below ground, was 59,635 h.p., a decrease of 4,581 h.p. in comparison with 1952.

Due to the decrease of men employed underground, there was a decrease of the use of protective equipment, there being in use during 1953, 3,737 hard hats, 2,785 pairs of safety shoes, 396 pairs of glasses and 153 pairs of knee pads.

The number of fatal accidents during the year was 10 as compared with 7 in 1952. This equals 1.69 fatals per million tons of coal produced.

As regards the aforementioned fatalities, 4 occurred on the surface and 6 underground. Causes of the fatal accidents are as follows:—bumps 5; haulage 1; miscellaneous 1; strip mining 3. The total number of accidents reported to this office during the year was 129, a decrease of 36 from the number reported in 1952.

Regulations governing the use of diesel locomotives in coal mines were established on August 24th, and a total of 13 approved diesel locomotives are now operating in the mines of the Province, located as follows:—1 operated by Canadian Collieries (Dunsmuir) Ltd., Foothills; 1 operated by Luscar Coals Ltd., Luscar; 1 operated by Bryan Mountain Coal Co. Ltd., Robb; 2 operated by Lethbridge Collieries Ltd., Lethbridge; 5 operated by West Canadian Collieries Ltd., Blairmore; 2 operated by Coleman Collieries Ltd., Coleman; 1 operated by Saskatchewan Federated Co-operatives Ltd., Drumheller.

The Central Board of Examiners during the year 1953 consisted of the following:— As representing:

The Mines Inspectorate:—J. A. Dutton, Director of Mines.
Mine Managers:—A. Crawford and P. M. Ramsay.
Working Miners:—D. J. Holly and A. Ragon.
Secretary:—Muriel Roberts.

Mr. Arthur Ragon was appointed to the Central Board of Examiners, replacing Mr. A. Campbell, who resigned in 1952. Mr. D. J. Holly resigned from the Board on October 1st, after a continuous service of 6 years, at which date Mr. H. R. Sherwood was appointed to replace him.

The Strip Mine Board of Examiners during the year 1953 consisted of the following:— As representing:

The Mines Inspectorate—J. A. Dutton, Director of Mines.
Strip Mine Managers:—G. A. Wiggan.
Strip Mine Workers:—T. Talbot (substitute).
Secretary:—Muriel Roberts.

Mr. G. A. Wiggan retired from the Strip Mine Board of Examiners on July 1st. Mr. Wiggan was a member of the original Board which commenced in 1948. This Board was discontinued during the year and the duties of same have been taken over by The Central Board of Examiners.

Examinations during the year were held as follows: For First and Second Class Certificates at the following centres: Calgary and Edmonton, on June 3rd, 4th and 5th; for Third Class, Mine Electricians', Foremen's and Strip Mine Blasters' Certificates at the following centres: Blairmore, Cadomin, Drumheller and Lethbridge, on May 26th, and for Foremen's Certificates on August 28th at Blairmore; for Mine Surveyors' and Strip Mine Managers' Certificates at the following centres: Calgary and Edmonton, on June 5th; for Quarry Blasters' Certificates at Exshaw, on December 16th.

A "bump" occurred in the 101 N.E. District of Mine No. 204, Coleman Collieries Ltd., Coleman, on January 20th, in which three men lost their lives. A further "bump" occurred on May 6th, at which time two men were killed. This district of the mine has now been abandoned. Considerable research work is being conducted by The Department of Mines and Technical Surveys, Ottawa, in connection with the study of outbursts. Observations on outbursts during the coming year are expected to be carried out in Canmore and possibly the Crowsnest Area.

On April 10th, a heating occurred in a loose coal bench in the strip mine operated by Sterling-Coal Valley Mining Co. Ltd. All heated material was loaded out by dragline and nothing further has since been observed.

The tipple of Mine No. 864, Carbonite Corporation of Canada Ltd., Big Valley was destroyed by fire on July 9th. The briquetting plant was left intact, but there have been no plans made for the erection of a new tipple.

On August 27th, a fire destroyed several belt conveyors, sampling equipment and electric motors at the tipple of Mine No. 204, Coleman Collieries Ltd., Coleman. The damage was quickly repaired, and no time was lost.

An ignition of gas occurred at Mine No. 1484, Century Coals Ltd., Drumheller, on September 11th, when the cutting bar of a short-wall machine holed through into abandoned workings. No injuries were experienced, and the breakthrough was successfully sealed off. Henceforth, a barrier of 50 feet will be left to isolate the abandoned area. Mr. Shaw, and Mr. Muir, District Inspectors of Mines, investigated this condition.

A surface fire at Mine No. 1584, West Canadian Collieries Ltd., Blairmore, on December 15th, destroyed the rotary dump and chute. Plans were made to rebuild same immediately, and in the interim the miners were employed at the Bellevue mine of the same company.

On December 30th, a fire destroyed the fan-house at Mine No. 1626, Starky Coal Co. Ltd., Edmonton. The Edmonton Fire Department were successful in preventing the fire from spreading to the underground workings and other surface buildings. Plans are now under way to rebuild a new fan-house and repair the ventilating apparatus.

During the year the following changes took place in the staff of The Mines Division:

Mr. John Crawford retired from public service on March 31st, after approximately 17 years, 9 years as Chief Inspector and Director of Mines.

Mr. J. A. Dutton, formerly Assistant to the Director of Mines, was appointed Director of Mines on April 1st.

Mr. James Horne, formerly District Inspector of Mines at Drumheller, was appointed Assistant Director of Mines on June 1st.

Mr. R. Shaw, District Inspector of Mines, was transferred from the Stettler to the Drumheller Office, and the Stettler Office was closed.

During the year, the Province was divided into six Inspection Districts as follows: Blairmore, Calgary, Drumheller, Edmonton, Edson and Lethbridge. (See Map of Coal Areas and Inspection Districts shown elsewhere in the report.)

SUMMARY OF INFORMATION COMPILED FROM THE REPORTS OF THE INSPECTORS

BLAIRMORE INSPECTION DISTRICT

(P. MELSON, *District Office, Blairmore*)

There were 7 mines producing coal in this district during the year 1953, located by areas as follows:—Crowsnest 6, Pincher 1.

Of this number 2 are strip mines, located by areas as follows:—Crowsnest 2 (one of which is a combined operation).

During the year, 62 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation

Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 59 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

I presided at the officials' examinations held in Blairmore for Third Class Certificates and Strip Mine Blasters' Certificates, on May 26th, and Strip Mine Foremen's Certificates, on August 28th.

Two miners' examinations were held in this district on the following dates and locations:—February 27th and August 28th at Coleman. Forty-two candidates passed the examination and were issued miners' certificates. Three miners' provisional certificates and twenty-eight miners' permits were issued by this office during the year.

Six coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Twenty-seven coal dust samples were collected for analysis.

Two trade names were registered under The Coal Sales Act.

One prosecution was instituted for contravention of The Coal Mines Regulation Act, and was as follows:—owner for failing to forward Coal Operators' Monthly Statements on time. A conviction was gained.

Two new mines were opened in this district during the year as follows:—Mine No. 1731, drift opening by Daniel A. Pollo, Pincher Creek; Mine No. 1733, strip mine by Willow Valley Coal Co., Pincher Creek.

Two mines were re-opened in this district during the year.

Two mines were temporarily closed in this district during the year.

Thirty-seven accidents were reported direct to this office from the mines during the year including six fatal accidents, the particulars of which are as follows:—three miners sustained fatal injuries when excessive pressure caused an upheaval of the floor in working places; two miners were killed when excessive pressure caused a roof failure at the working face; a trucker was killed when his truck backed over a dump at a strip mine. Of the remaining thirty-one accidents, ten occurred on the surface of which four were classified as serious and six classified as slight. The twenty-one underground accidents were classified as eleven serious and ten slight.

A fire occurred at the Coleman Collieries Ltd. (McGillivray) tipple on August 27th, destroying several belt conveyors, sampling equipment and electric motors. The damage was quickly repaired and resulted in no lost time.

On October 11th, the tipple of the abandoned Hillcrest operation was partially destroyed by fire. The crushers, air-tables and one Vissac Jig, and the wooden portion of the tipple was lost.

Both experienced and inexperienced labour was abundant in this district, due to the closing of two districts of Coleman Collieries Ltd.

All the mines lost four days due to lack of railroad cars during the spring runoff, when trains could not get through due to failure of bridges, otherwise no shortage was experienced.

Particulars as to days lost at each mine during the year on account of shortage of orders are as follows:—Coleman Collieries Ltd. (88) 90 days; Coleman Collieries Ltd. (204) 95 days; Coleman Collieries Ltd. (1695) 90 days; West Canadian Collieries Ltd (396) 90 days; Beaver Mines Coal Co. Ltd. approximately four months.

Due to the dieselization of all passenger trains through the Pass, and partial dieselization of freight service, a substantial loss of working time was felt in this district.

During the year Mr. J. G. Smith was appointed to the miners' examination board, due to the retirement of Mr. D. J. Holly.

There was one quarry operating in this district during the year as follows:—Quarry No. Q8, Summit Lime Works, Crowsnest, B.C. Two quarry inspections were made during the year.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 88, Coleman Collieries Ltd., Coleman, installed underground one Allis-Chalmers 4 in. x 3 in.—4 stage 500 gal. per min. pump; above ground one 30 in. belt conveyor and two 1,250 gallon tanks and pump to oil-treat coal.

Mine No. 199, Beaver Mines Coal Co. Ltd., Beaver Mines, one large GMC tandem coal truck.

Mine No. 204, Coleman Collieries Ltd., Coleman, one five ft. Jeffery Aerovane fan; two eight ft. roller bearing bicycle-type sheaves for hoisting; 100 model P Edison Miners' lamps; crusher, new bins, five belt conveyors, one-flight conveyor and two Tyrock screens installed at tipple for handling strip coal.

Mine No. 396, West Canadian Collieries Ltd., Blairmore, one 250 ton steel and concrete storage bin for briquette plant; two rubber belt conveyors from plant to storage bin and to tipple; one weightometer for weighing tonnage of briquettes passing over belts; No. 3 Parry drier was put into operation; at strip mine, one Northwest 2-yard shovel and a D7 Caterpillar.

Mine No. 1695, Coleman Collieries Ltd., Coleman, obtained another R600 Gyro-flow compressor, two D7 Caterpillar tractors and one LeRoi dual, self-propelled drill rig.

Quarry No. Q8, Summit Lime Works, Crowsnest, B.C., one 30 H.P. gasoline-driven Payloader for loading and transporting, one Bay City electric driven 40 H.P. ¾-yard shovel; two 75 kva Ferranti transformers (secondary voltage 440 volts).

CALGARY INSPECTION DISTRICT

(A. MUIR, *District Office, Calgary*)

There were 18 mines producing coal in this district during the year 1953, located by areas as follows:—Big Valley 1; Carbon 11; Cascade 2; Gleichen 3; Pekisko 1.

Of this number 3 are strip mines, located by areas as follows:—Carbon 3.

During the year, 65 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 65 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

I presided at the officials' examinations held in Calgary for First Class Certificates, Second Class Certificates, Mine Surveyors' Certificates and Strip Mine Managers' Certificates on June 3rd, 4th and 5th; also for Quarry Blasters' Certificates at Exshaw on December 16th.

No miners' examinations were held in this district during 1953. Eight miners' provisional certificates and thirty-nine miners' permits were issued by this office during the year.

Three coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Two prosecutions were instituted for contraventions of The Coal Mines Regulation Act, particulars of which were as follows:—one overman for failing to be in attendance at the mine when same was in operation; one haulageman for having in his possession lucifer matches and cigarettes while in the mine. All were convicted.

Seven mines were re-opened in this district during the year.

Nine mines were temporarily closed in this district during the year.

Two mines were abandoned in this district during the year as follows:—Mine No. 384, Inland Coal Co. Ltd., Three Hills; Mine No. 1719, Alvin Notland, Morrin.

Three accidents were reported direct to this office from the mines during the year of which one serious accident occurred on the surface. The two underground accidents were classified as one serious and one slight.

With the exception of a minor strike at Canmore Mines Ltd. for a period of four days, due to a dispute over an employee's house, this district was free of labour troubles during the year.

The manpower situation in this district seemed fairly satisfactory, several of the mines having been supplied with Europeans who were qualified miners.

Particulars as to days lost at each mine during the year on account of shortage of orders are as follows:—Canmore Mines Ltd. 49; all other mines lost on an average of 40 days.

Absenteeism has been practically eliminated in this district, due to the fact that most of the mines are on short time.

There were three quarries operating in this district during the year as follows:—Quarry No. Q2, Canada Cement Co. Ltd., Exshaw; Quarry No. Q3, Loders Lime Co. Ltd., Exshaw; Quarry No. Q13, Rock Wool Products Ltd., Exshaw. Ten Quarry inspections were made during the year.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 2, Canmore Mines Ltd., Canmore, one Trane Horizontal Heater; one fan; power switchboard; sprinkler system; rack and pinion gates with handwheels for slack storage bin; one complete Canadian Ingersoll-Rand compressor; one 300 ton bin.

Mine No. 194, A. A. McArthur, Carbon, one T.D. 14 International caterpillar and overloader; one D7 caterpillar; Fairbanks Morse 5,000 watt, 110 volt power plant for drilling; two 3-ton Mercury trucks; hoists and boxes for ramping coal; one 5,000 gallon portable water pump.

Mine No. 921, E. Reissig, Trochu, two 50-ton coal storage bins.

Quarry No. Q2, Canada Cement Co. Ltd., Exshaw, have practically doubled their production since the installation of their new plant.

DRUMHELLER INSPECTION DISTRICT

(R. SHAW, *District Office, Drumheller*)

There were 25 mines producing coal in this district during the year 1953, located by areas as follows:—Big Valley 2; Drumheller 19; Sheerness 4.

Of this number 10 are strip mines, located by areas as follows;—Big Valley 2; Drumheller 5; Sheerness 3.

During the year, 86 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 65 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

Mr. J. Horne presided at the officials' examinations held in Drumheller for Third Class Certificates, Mine Electricians' Certificates and Strip Mine Foremen's Certificates, on May 26th.

One miner's examination was held in this district on the following dates and location:—November 13th and 14th at Drumheller. Twenty candidates passed the examination and were issued miners' certificates. Eighteen miners provisional certificates and eighty-two miners' permits were issued by this office during the year.

Seven coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Six trade names were registered under The Coal Sales Act.

One new mine was opened in this district during the year as follows:—Mine No. 1732, strip mine by Lehigh Coal Co. Ltd., Sheerness.

Eleven mines were re-opened in this district during the year.

Two mines changed ownership in this district during the year as follows:—Mine No. 1597, J. Bordula and Sons, Hanna, to Lehigh Coal Co. Ltd., Sheerness; Mine No. 1666, A. Livingstone, Drumheller, to M. Sands and Partners, Rosedale.

Eleven mines were temporarily closed in this district during the year.

One mine was abandoned in this district during the year as follows:—Mine No. 1314, J. Gaetz, Hanna.

Thirty-seven accidents were reported direct to this office from the mines during the year including two fatal accidents, the particulars of which are as follows:—a master mechanic suffered severe body and leg burns when he became engulfed by sliding heated debris from a mine refuse dump; an examiner received fatal injuries on being pinioned between a mine door and gravitating loaded cars. Of the remaining thirty-five accidents, one occurred on the surface which was classified as serious. The thirty-four underground accidents were classified as fifteen serious and nineteen slight.

On July 9th, a fire destroyed the Carbonite Corporation of Canada Ltd. tipple at Big Valley. The briquetting plant was left intact.

A gas ignition occurred on September 11th, at Century Coals Ltd., East Coulee, when the cutting bar of a short-wall machine holed through into the abandoned workings. There were no injuries, and the breakthrough was successfully sealed off.

Mine No. 422, Century Coals Ltd. went on strike for three days, due to the dismissal of a workman. The workman was reinstated.

Mine No. 1491, Murray Collieries Ltd. went on strike for one day, due to a dispute over overtime work. The strike was settled the same day.

Though the labour situation regarding miners employed on a contract basis in this district was satisfactory during the year, a shortage of experienced miners accustomed to mechanized mining prevailed.

Particulars as to days lost at each mine during the year on account of shortage of orders are as follows:—Midland Coal Mining Co. Ltd. 74 days; Red Deer Valley Coal Co. Ltd. 34 days; Star Coal Mines Ltd. 81 days; Brilliant Coal Mining Co. Ltd. 102; Century Coals Ltd. (1484) 52; Saskatchewan Federated Co-ops. Ltd. 98; Murray Collieries Ltd. 68; Monarch Coal Mining Co. Ltd. 74.

The expanding use of oil, gas, propane and electricity have particularly affected the market of stoker, nut and slack coals. At points where natural gas has been installed, the sales of all sizes of coal have been greatly affected. Coal production in this district can now be regarded as seasonal, which has resulted in a marked reduction of absenteeism.

During the year Messrs. I. N. Potter and J. Conroy, manager and miner respectively, were appointed to the miner's examination board.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 367, Midland Coal Mining Co. Ltd., Drumheller, one 15 H.P. motor; one oil spray outfit; one 7B cutting machine; one nut picking belt installation; two Jeffrey blower fans; one Victor coal drill; one John Woods 100 H.P. hoist.

Mine No. 443, Western Dominion Coal Mines Ltd., Sheerness, two portable transformer banks.

Mine No. 1421, Saskatchewan Federated Co-ops., Drumheller, 165 Edison Model R.A. electric cap lamps; one 100 H.P. Westinghouse Slip Ring motor; one 4½-ton Ruston-Hornsby Locomotive.

Mine No. 1573, Monarch Coal Mining Co. Ltd., Drumheller, one Forano portable conveyor to facilitate loading of stockpiled slack coal.

Mine No. 1597, Lehigh Coal Co. Ltd., Sheerness, lumber cleaning and sizing plant constructed; one T.D. 14A International Caterpillar with Malo Loader; one 8-yard Richardson hydraulic scraper.

Mine No. 1666, Subway Coals, Rosedale, one T.D. 18 International Caterpillar; one Issacson 8-11 yard scraper; one T.D. 9 overhead loader.

Mine No. 1669, Joy Coal Co., Cambria, one G12½ Goodman conveyor unit; one Cincinnati electric coal drill.

EDMONTON INSPECTION DISTRICT

(J. THOMSON, *District Office, Edmonton*)

There were 60 mines producing coal in this district during the year 1953, located by areas as follows:—Ardley 5; Camrose 5; Castor 18; Edmonton 16; Halcourt 2; Nordegg 1; Pembina 3; Saunders 1; Tofield 5; Westlock 3; Wetaskiwin 1.

Of this number 32 are strip mines, located by areas as follows:—Ardley 5; Camrose 5; Castor 4; Edmonton 7; Halcourt 1; Nordegg 1 (combined operation); Pembina 3; Tofield, 3; Westlock 3.

During the year, 138 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 135 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

I presided at the officials' examinations held in Edmonton for First Class Certificates, Second Class Certificates, Mine Surveyors' Certificates and Strip Mine Managers' Certificates on June 3rd, 4th and 5th; also for Third Class Certificates, Mine Electricians' Certificates and Strip Mine Foremen's Certificates on May 26th; and Mine Rescue examinations at Nordegg on December 15th.

Three miners' examinations were held in this district on the following dates and locations:—February 11th at Rosalind, October 14th at Nordegg and November 23rd at Edmonton. Seventy-one candidates passed the examination and were issued miner's certificates. Thirty-nine miners' provisional certificates and ninety-two miners' permits were issued by this office during the year.

Three coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Two trade names were registered under The Coal Sales Act.

One new mine was opened in this district during the year as follows:—Mine No. 1734, strip mine by John Lynass, Delburne.

Twenty-nine mines were re-opened in this district during the year.

Four mines changed ownership in this district during the year as follows:—Mine No. 1534, Joe Gill, Thorsby, to Peter Gill, Thorsby; Mine No. 1627, Beverly Coal Co. to Dickinson & Knight, Carbondale; Mine No. 1670, Lothian Collieries Ltd., Warburg, to Warburg Coal Co. Ltd., Warburg; Mine No. 1718, L. Ose, Donalda, to Wm. Jones, Donalda.

Thirty-five mines were temporarily closed in this district during the year.

Nine mines were abandoned in this district during the year as follows:—Mine No. 1135, B. C. Kurp, Delburne; Mine No. 1343; Joseph Haden, Castor; Mine No. 1496, G. S. Gwilliam & K. Samis, Namao; Mine No. 1572, Wm. A. Jones, Donalda; Mine No. 1673, D. L. Gordon, Warden; Mine No. 1687, James Sturms, Genesee; Mine No. 1697; M. R. Muyres & Sons, Forestburg; Mine No. 1729, John Lynass, Delburne; Mine No. 1730, Edward F. Norris, Slave Lake.

Ten accidents were reported direct to this office from the mines during the year, of which three serious accidents occurred on the surface. The seven underground accidents were classified as one serious and seven slight.

A fire destroyed the fan-house at Starkey Coal Co. Ltd., on December 30th. The Edmonton Fire Department were successful in confining the fire to this building.

Particulars as to days lost at each mine during the year on account of shortage of orders are as follows:—Brazeau Collieries Ltd., 17; Alexo Coal Co. Ltd., 22; Starkey Coal Co. Ltd., 43; Edmonton Collieries Ltd., 129.

During the year Mr. Robert Phillips was appointed to the miner's examination board.

There were three quarries operating in this district during the year as follows:—Quarry No. Q1, J. B. Little and Sons, Edmonton; Quarry No. Q5, Alexander Brick & Tile Co. Ltd., Edmonton; Quarry No. Q16, K. J. Dalen, Grande Prairie. Three quarry inspections were made during the year.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 852, Alexo Coal Co. Ltd., Alexo, double roll crusher to crush Egg coal to Stoker; 80-foot belt conveyor on the tipple.

Mine No. 1046, Battle River Coal Co. Ltd., Halkirk, furnace heated wash-house with lockers, sprays, wash basins, urinals and toilets, and a fully equipped First Aid room.

Mine No. 1441, Buckle Brothers, Donalda, one 15 kilowatt generator and one Siskol coal cutter.

Mine No. 1578, Forestburg Collieries Ltd., Forestburg, cement block 50-man wash-house with lockers, sprays, wash basins, urinals and toilets.

Mine No. 1718, Wm. Jones, Donalda, two locomotive boilers; air compressor; new slope and tipple with rotary screen.

Mine No. 1727, Red Hot Coals Ltd., Edmonton, a 29-pole telephone line and telephone installation to connect with the city system.

EDSON INSPECTION DISTRICT

(A. L. Lister, *District Office, Edson*)

There were 14 mines producing coal in this district during the year 1953, located by areas as follows:—Coalspur 4; Mountain Park 1; Pembina 5; Prairie Creek 1; Whitecourt 2; No Area 1.

Of this number 12 are strip mines, located by areas as follows:—Coalspur 4; Mountain Park 1 (combined operation); Pembina 4; Whitecourt 2; No Area 1.

During the year, 74 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 65 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

I presided at the officials' examinations held in Cadomin for Third Class Certificates, Mine Electricians' Certificates, Strip Mine Foremen's Certificates and Strip Mine Blasters' Certificates, on May 26th.

One miner's examination was held in this district on the following date and location:—February 28th at Mercoal. Thirty-one candidates passed the examination and were issued miners' certificates. One miner's provisional certificate and 38 miners' permits were issued by this office during the year.

Seven coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Three mine air samples were collected and forwarded to the Bureau of Mines, Ottawa, for analysis.

Four trade names were registered under The Coal Sales Act.

Eleven prosecutions were instituted for contraventions of The Coal Mines Regulation Act, particulars of which were as follows:—two managers for failing to forward Coal Operators' Monthly Statements on time; one manager for failing to keep a man-hole clear of obstructions; one fireboss for failing to see that the provisions of the Act were strictly observed; two miners for undercutting coal at the face while the face was not safely supported; one strip mine blaster for failing to see that all persons were out of danger before firing a shot; two railway employees on two charges, i.e., for entering a mine without permission, and entering a mine with a lamp other than an approved type. Convictions were obtained in each case.

One new mine was opened in this district during the year as follows:—Mine No. 1735, strip mine by Len Collins, Connor Creek.

Five mines were re-opened in this district during the year.

Two mines changed ownership in this district during the year as follows:—Mine No. 771, Foothills Collieries Ltd., Foothills, to Canadian Collieries (Dunsmuir) Ltd., Foothills; Mine No. 1645, Lothian Collieries Ltd., Wabamun, to Alberta Southern Coal Co. Ltd., Wabamun.

Five mines were temporarily closed in this district during the year.

Four mines were abandoned in this district during the year as follows:—Mine No. 693, Cadomin Coal Co. Ltd., Cadomin; Mine No. 1645, Alberta Southern Coal Co. Ltd., Wabamun, (this mine was consolidated with Mine No. 419, and is considered abandoned) ; Mine No. 1653, Hinton Hard Coal Co., Hinton; Mine No. 1715, S. Giovinazzo, Highvale.

Thirty-one accidents were reported direct to this office from the mines during the year including two fatal accidents, the particulars of which are as follows:—two strip mine drillers were instantly killed when rock slid from the bank of a strip pit. Of the remaining twenty-nine accidents, nine occurred on the surface of which three were classified as serious and six classified as slight. The twenty underground accidents were classified as five serious and fifteen slight.

A heating occurred at the strip mine operated by the Sterling-Coal Valley Mining Co. Ltd., on April 10th. A dragline was brought in and all heated material loaded out. No further heating has since been observed.

An ignition of gas was reported to this office on August 17th, when an explosion occurred in the 4800 foot level of the abandoned Cadomin Coal Co. Ltd., the only damage being one entrance forced open by the blast.

A total of five days were lost in this district due to labour-management disputes, the particulars of which were as follows:—Canadian Collieries (Dunsmuir) Ltd. (846) 3 days; Bryan Mountain Coal Co. Ltd., 2 days.

The manpower situation in this district has been very satisfactory during the year, with only one mine reporting a shortage of experienced miners during the fall months.

Particulars of days lost at each mine during the year on account of shortage of orders are as follows:—Alberta Southern Coal Co. Ltd. (419) 19; Canadian Collieries (Dunsmuir) Ltd. (771) 58; Canadian Collieries (Dunsmuir) Ltd. (846) 28; Luscar Coals Ltd. 28; Bryan Mountain Coal Co. Ltd., 47.

While substitute fuels have made some progress in cutting in on the coal market, I believe that the mild weather during the past year has been responsible to a great extent for the reduced production.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 771, Canadian Collieries (Dunsmuir) Ltd., Foothills, introduced one compressed air locomotive of the tram-air type on their haulage; also made extensive repairs to the cookhouse.

Mine No. 846, Canadian Collieries (Dunsmuir) Ltd., Mercoal, one 8-84 Jeffery Aerodyne fan; one C.I.R. Electric compressor of 150 H.P. rating; 1,750 feet of belt conveyor underground.

Mine No. 1157, Bryan Mountain Coal Co. Ltd., Robb, 60-car siding to facilitate the handling of mine cars; extended the electrical services to include Mile 33; one 150 K.V.A. power transformer; one Eimco Air locomotive type 401.

Mine No. 1714, H. Schnur and Partners, Hinton, one Hercules 105 H.P. Diesel motor; 50-ton storage bin for lump coal on their tipple.

LETHBRIDGE INSPECTION DISTRICT

(J. D. B. Brown, *District Office, Lethbridge*)

There were 22 mines producing coal in this district during the year 1953, located by areas as follows:—Brooks 2; Champion 3; Crowsnest 2; Lethbridge 8; Pakowki 1; Redcliff 1; Taber 5.

Of this number 6 are strip mines, located by areas as follows:—Brooks 2; Crowsnest 1 (combined operation); Lethbridge 1; Taber 2.

During the year, 106 inspections of coal mines were made and reported upon in accordance with The Coal Mines Regulation

Act. All serious accidents and complaints were investigated and reports on same were forwarded to the Director of Mines.

During the year, 89 inspections were made for the Workmen's Compensation Board, all of which were reported to the Board.

I presided at the officials' examinations held in Lethbridge for Third Class Certificates, Mine Electricians' Certificates and Strip Mine Foremen's Certificates, on May 26th.

One miner's examination was held in this district on November 28th at Lethbridge. Twenty-five candidates passed the examination and were issued miners' certificates. Six miners' provisional certificates and sixty-two miners' permits were issued by this office during the year.

Nine coal samples were collected and forwarded to the Research Council, University of Alberta, Edmonton, for analysis.

Two prosecutions were instituted for contraventions of The Coal Mines Regulation Act and were as follows:—an operator for having more men underground than permitted under the terms of the Act; a miner for not returning unused powder at the conclusion of the shift. Convictions were obtained in both cases.

Ten mines were re-opened in this district during the year.

Eleven mines were temporarily closed in this district during the year.

Two mines were abandoned in this district during the year as follows:—Mine No. 1301, E. Taylor, Lucky Strike; Mine No. 1565, M. Popovich, Champion.

Eleven accidents were reported direct to this office from the mines during the year, of which two serious accidents occurred on the surface. The nine underground accidents were classified as seven serious and two slight.

On December 15th, a fire occurred at West Canadian Collieries Ltd. (1584), totally destroying the rotary dump and chute. Plans were made to rebuild immediately, and in the interim, the miners were employed at the Bellevue mine of the same company.

The manpower situation in this district was improved over that of last year, with the mines in the Crowsnest area experiencing little difficulty in engaging both casual and experienced workmen. In the Lethbridge area there was a scarcity of miners in the early fall, but the situation was later modified when harvesting operations were completed.

There was no shortage of railroad cars experienced in this district during the year, other than four days being lost by the mines in the Crowsnest area during the June storms, when trains could not get through.

Particulars as to days lost at each mine during the year on account of shortage of orders are as follows:—West Canadian Collieries Ltd. (87) 94, A. Razzolini 96; O. J. Malo 40; Lethbridge Collieries Ltd. (1263) 146; Lethbridge Collieries Ltd. (1464) 116; Champion Coal Co. Ltd., 41; J. J. Hamilton Coal Co., 124; West Canadian Collieries Ltd. (1584) 92; Alberta Southern Coal Co. Ltd. (1604) 190; Coral Coals Ltd. 180.

Owing to the last three winters being mild, it is difficult to evaluate to what extent substitute fuels have affected the coal industry in this district. Certain indications support the impression that such substitutes are gaining ground, but the extent will not be known until we experience a normal winter.

There are three quarries operating in this district during the year as follows:—Quarry No. Q4, Perry Brick & Tile Co., Redcliff; Quarry No. Q7, Redcliff Premier Brick & Tile Co., Redcliff; Quarry No. Q14, Medicine Hat Brick & Tile Co., Medicine Hat. Six quarry inspections were made during the year.

The following is a list of improvements and installations at the various mines in this district:

Mine No. 87, West Canadian Collieries Ltd., Bellevue, underground: one 50 H.P. 300 gal. per min. electric pump for a head of 600 feet in a concrete pump room; surface: rebuilt a loader house and scale house, both all steel, insulated and aluminum sheathed. Replaced in the loader house was a Ottumwa box-car loader and a 25 H.P. electric motor; Parry Drier: one wet coal bin of 15 ton capacity; one 70 ton capacity dry coal bin; one furnace; one fresh air fan; one circulating fan; one reversion belt. Total H.P. 55. Lamex plant: building constructed of steel, asbestos sheeting, rock wool insulation, consisting of launders, pumps, screens to process ¼ inch coal. Total H.P. 194. Briquette plant: building constructed of steel, asbestos board siding, rock wool insulation, includes one raw coal surge bin with a capacity of 15 tons; one mixing conveyor; one fluxer; press; one cooling conveyor, 150 feet long; two pitch tanks (pitch tanks are in separate building adjacent to briquette plant.) Total H.P. 262½.; two 350-ton, reinforced concrete storage bins, one for raw coal and the other for storing briquettes; one 24 in. 170 ft. conveyor belt from Parry Drier to storage bin; one 24 in. 140 ft. belt from briquette plant to storage bin, which also incorporates a weightometer; one 30 in. 150 ft. conveyor for briquette loading; one bucket elevator and a 14 in. flight conveyor. All construction is steel, and combined H.P. is 70.

Mine No. 1404, Kleenbirn Collieries Ltd., Eyremore, one crusher with a 15 H.P. motor installed on tipple; one oil spray on tipple.

Mine No. 1584, West Canadian Collieries Ltd., Blairmore, built a rotary dump and chute storage bin with 70 tons capacity, to replace one destroyed by fire late in December.

Mine No. 1672, Coral Coals Ltd., Rolling Hills, one pit breaker installed between raw coal bin and main belt, with a 15 H.P. electric motor; an open car ramp; a 1 H.P. coal oiling installation.

ELECTRICAL INSPECTION OF MINES

(B. TAIT, *District Office, Edmonton*)

During 1953 there were 81 mines in Alberta using electrical equipment. Two of these ceased operations during the year, leaving 79 electrified mines in operation at December 31st. In addition to the above, three small mines use only miners' electric lamps, battery charging apparatus or electric signals.

Mines electrified during 1953 are as follows:—Mine No. 1441, Buckle Brothers, Donalda; Mine No. 1732, Lehigh Coal Co. Ltd., Sheerness.

Electrified mines closed during 1953 are as follows:—Mine No. 864, Carbonite Corp. of Canada Ltd., Big Valley; Mine No. 1244, Frank Wheatley & Sons, Banff.

Ninety-six inspections and six partial inspections were made at mines during the year, and all mines using electrical energy have been inspected. Three inspections were made at two quarries where electric shovels, draglines, drills, etc., were used.

I am pleased to report no fatal or serious accidents occurred due to the use of electricity. Three minor accidents were reported to this office.

Major electrical installations at mines during 1953 are as follows:

Mine No. 2, Canmore Mines Ltd., Canmore, installed motors to approximately 925 H.P., mostly in connection with the rebuilding of the coal preparation plant.

Mine No. 87, West Canadian Collieries Ltd., Bellevue, one briquette plant with motors totalling 690 H.P.

Mine No. 846, Canadian Collieries (Dunsmuir) Ltd., Mercoal, new fan installation with a 100 H.P. synchronous motor, 2,300 volts; compressor with a 150 H.P. 2,300 volt, synchronous motor; one Harland pump with a 150 H.P. 2,300 volt motor; and flameproof switch and control gear.

Mine No. 1732, Lehigh Coal Co. Ltd., Sheerness, a new tipple with 100 H.P. in motors.

There were numerous smaller installations during the year, with motors to a total of approximately 5,145 H.P., including the above "Major Installations."

The total horsepower of motors, connected load, in use at mines during 1953 is as follows:

Surface		Underground	
Duty	H.P.	Duty	H.P.
Hoisting	8,437	Pumping	5,618
Ventilation	2,689	Rope Haulage	1,480
Air Compressing	7,803	Conveying and Loading	1,068
Tipple and Coal Preparation	15,830	Cutting and Drilling	5,627
Miscellaneous	7,826	Miscellaneous	3,257
	42,585		17,050

Total above and below ground—59,635.

The figures below show the trend in the use of certain types of electrical equipment underground:

	1948	1949	1950	1951	1952	1953
Cutting machines	184	184	197	183	185	144
Battery locomotives	39	41	47	46	47	42
Trolley locomotives	22	23	29	29	31	27
Conveyors	47	74	92	82	83	50
Coal drills	59	79	91	93	105	88
Face loaders	6	7	7	11	12	10

Kilowatt hours of energy purchased by mining companies from Central Stations:

Year	K.W.H.	Year	K.W.H.
1939	27,575,926	1947	47,892,597
1940	31,660,119	1948	49,724,365
1941	35,973,384	1949	53,590,982
1942	41,401,573	1950	50,418,029
1943	41,491,378	1951	50,956,876
1944	39,349,384	1952	58,317,043
1945	42,790,653	1953	58,500,593
1946	46,012,415		

Five electric shovels and two diesel-electric shovels are used in strip mines. Three of these are supplied with power at 4,160 volts, one at 2,300 volts and one at 440 volts. The diesel-electric shovels generate at 550 volts. Three 2,300 volt shovels and one 440 volt shovel are in use at quarries.

The majority of electrified mines are supplied with power from Central Stations. In addition, there were in use at mines during the year, local steam plants with a capacity of 5,050 kva and diesel and gasoline plants with a capacity of approximately 2,025 kva.

The following table is taken from a report prepared by the Dominion Bureau of Statistics and publised in "Coal Statistics for Canada" for the year 1952

Calendar Year	Short Tons	Value
1886	43,220	$ 81,112
1887	74,152	157,577
1888	115,124	183,354
1889	97,364	179,640
1890	128,753	198,298
1891	174,131	437,243
1892	178,970	460,605
1893	230,070	586,260
1894	184,940	473,827
1895	169,885	382,526
1896	209,162	581,832
1897	242,163	630,408
1898	315,088	787,720
1899	309,600	774,000
1900	311,450	778,625
1901	340,275	850,687
1902	402,819	960,605
1903	495,893	1,117,541
1904	661,732	1,404,524
1905	931,917	1,993,915
1906	1,246,360	2,614,762
1907	1,591,579	3,836,286
1908	1,685,661	4,127,311
1909	1,994,741	4,838,109
1910	2,894,469	7,065,736
1911	1,511,036	3,979,264
1912	3,240,577	8,113,525
1913	4,014,755	10,418,941
1914	3,683,015	9,350,392
1915	3,360,818	8,283,079
1916	4,559,054	11,386,577
1917	4,736,368	14,153,685
1918	5,972,816	20,537,287
1919	4,964,535	18,294,495
1920	6,833,500	29,849,608
1921	5,909,217	27,246,514
1922	5,990,911	24,351,913
1923	6,854,397	28,018,303
1924	5,189,729	18,884,318
1925	5,869,031	20,021,484
1926	6,503,705	20,886,103
1927	6,934,162	21,982,058
1928	7,336,330	23,532,414
1929	7,150,693	22,928,182
1930	5,755,528	18,063,225
1931	4,564,015	13,342,675
1932	4,870,648	13,526,309
1933	4,718,788	12,307,258
1934	4,753,810	12,556,099
1935	5,462,894	14,094,795
1936	5,696,960	14,659,705
1937	5,562,839	14,563,911
1938	5,251,233	13,698,470
1939	5,519,208	14,415,281
1940	6,203,839	16,377,959
1941	6,969,962	19,382,471
1942	7,754,053	22,624.410
1943	7,676,726	24,030,686
1944	7,428,708	26,814,957
1945	7,800,151	27,751,377
1946	8,826,311	33,441,930
1947	8,070,430	36,439,095
1948	8,123,255	42,217,449
1949	8,616,855	44,644,153
1950	8,116,220	41,687,211
1951	7,659,329	40,981,581
1952	7,194,757	39,908,362
Total	268,240,686	935,250,010

NOTE: Production quantities and values prior to 1919 refer to sales and colliery consumption. From 1919 to 1952 the mine output figures are given.

ANNUAL CONSUMPTION OF COAL IN CANADA 1902 - 1952

The following revised table is taken from the report issued by the Dominion Bureau of Statistics for the year 1952:

Year	Canadian*		Imported coal "entered for consumption"				Total	Per Capita
			From U.S.A.	From Gr. Britain	Total """			
	Short Tons	%	Short Tons	Short Tons	Short Tons	%	Short Tons	
1902	5,376,413	53.1	4,656,286	101,726	4,734,559	46.9	10,110,972	1.840
1903	6,005,735	47.3	6,520,931	184,593	6,678,450	52.7	12,684,185	2.245
1904	6,697,183	47.9	7,238,869	85,687	7,297,482	52.1	13,994,665	2.402
1905	7,032,661	49.4	7,233,738	68,500	7,215,446	50.6	14,249,107	2.374
1906	7,927,560	50.5	7,787,338	67,014	7,758,325	49.5	15,685,885	2.573
1907	8,617,352	45.0	10,588,697	54,325	10,549,503	55.0	19,166,855	2.990
1908	8,156,478	47.3	10,203,355	97,514	10,195,424	52.7	19,351,902	2.921
1909	8,913,376	47.9	9,805,253	67,671	9,711,826	52.1	18,625,202	2.739
1910	10,532,103	50.2	10,545,451	51,451	10,437,123	49.8	20,970,226	3.001
1911	9,822,749	40.5	14,510,129	48,963	14,424,949	59.5	24,247,698	3.364
1912	12,385,696	46.0	14,557,124	38,668	14,549,104	54.0	26,934,800	3.645
1913	13,450,158	42.6	18,145,769	37,825	18,132,387	47.4	31,582,545	4.138
1914	12,214,403	45.5	14,687,853	33,101	14,637,920	54.5	26,852,323	3.408
1915	11,500,480	48.1	12,450,796	15,098	12,406,212	51.9	23,906,692	2.995
1916	12,348,036	41.3	17,576,202	4,401	17,517,820	58.7	29,865,856	3.733
1917	12,313,603	37.2	20,848,009	9,451	20,810,132	62.8	33,123,735	4.110
1918	13,160,731	37.8	21,674,826	3,761	21,611,101	62.2	34,771,832	4.268
1919	11,611,168	40.3	17,292,913	344	17,236,269	59.7	28,847,437	3.471
1920	14,025,566	42.9	18,752,981	...	18,868,741	57.1	32,694,307	3.821
1921	12,715,734	41.1	18,300,081	1,591	18,258,387	58.9	30,974,121	3.525
1922	13,044,352	50.2	12,255,555	765,980	12,962,189	49.8	26,006,541	2.916
1923	15,070,962	41.8	20,417,239	572,570	20,967,971	58.2	36,038,933	4.000
1924	12,529,358	42.8	16,405,344	317,112	16,714,143	57.2	29,243,501	3.198
1925	12,125,290	42.6	15,744,957	604,117	16,331,971	57.4	28,457,261	3.062
1926	15,086,296	47.7	16,204,405	287,299	16,565,555	52.3	31,651,851	3.349
1927	15,944,983	46.7	17,266,434	907,220	18,177,303	53.3	34,122,286	3.541
1928	16,487,807	50.0	15,830,688	682,755	16,515,582	50.0	33,003,389	3.356
1929	16,387,461	48.0	16,780,452	843,502	17,724,132	52.0	34,111,593	3.401
1930	14,052,671	43.3	16,971,933	1,144,861	18,412,039	56.7	32,464,710	3.180

1931	11,682,779	47.7	11,793,798	987,442	12,828,327	52.3	24,511,106	2.362
1932	11,212,701	49.0	9,889,866	1,727,716	11,654,492	51.0	22,867,193	2.177
1933	11,456,273	51.5	8,865,935	1,942,875	10,808,962	48.5	22,265,235	2.085
1934	13,236,406	51.1	10,580,710	1,981,116	12,651,168	48.9	25,887,574	2.392
1935	13,306,303	53.1	9,618,518	1,822,500	11,735,835	46.9	25,042,138	2.290
1936	14,508,642	53.3	10,801,643	1,498,656	12,719,515	46.7	27,228,167	2.469
1937	15,172,729	51.5	12,574,574	1,211,052	14,268,585	48.5	29,441,314	2.648
1938	13,800,094	53.5	10,754,747	1,257,887	12,012,634	46.5	25,812,728	2.281
1939	14,902,915	50.7	12,838,347	1,099,419	14,479,668	49.3	29,382,583	2.597
1940	16,666,234	49.5	15,509,778	1,514,458	17,036,090	50.5	33,702,324	2.960
1941	17,227,151	46.2	19,332,479	693,902	20,026,082	53.8	37,253,233	3.238
1942	17,725,761	42.4	23,735,334	388,010	24,122,916	57.6	41,848,677	3.591
1943	16,321,006	37.1	27,303,778	391,475	27,895,098	62.9	44,016,104	3.727
1944	15,660,808	35.7	27,948,008	218,511	28,166,201	64.3	43,827,009	3.659
1945	15,227,819	38.3	24,505,241	28,388	24,521,528	61.7	39,749,347	3.279
1946	16,502,508	39.0	25,639,541	101,580	25,740,704	61.0	42,243,212	3.434
1947	14,673,967	34.0	28,410,149	52,777	28,462,242	66.0	43,136,209	3.428
1948	16,928,028	36.0	30,295,841	162,550	30,454,917	64.0	47,382,945	3.678
1949	18,104,626	45.3	21,501,583	331,457	21,833,057	54.7	39,937,683	2.947
1950	18,224,944	40.6	26,224,893	423,874	26,649,049	59.4	44,873,993	3.241
1951	17,571,154	39.8	26,232,211	291,656	26,523,921	60.2	44,095,075	3.148
1952	16,749,416	40.5	24,248,804	356,032	24,603,789	59.5	41,353,205	2.866

* The sum of Canadian coal mine sales, colliery consumption, coal supplied to employees and coal used in making coke, etc., less tonnage of coal exported.

""" Includes small tonnages from Countries other than Great Britain and the United States. Deductions have been made to take account of foreign coal re-exported from Canada, and bituminous coal ex-warehoused for ship's store.

Imports of coal and coke briquettes not included.

The following table shows the quantity of coke imported into Canada during the years 1951, 1952, and 1953 through ports in the Provinces, compiled from information from the Dominion Bureau of Statistics:

Province	1951		1952		1953	
	Made from Coal	Made from Petroleum	Made from Coal	Made from Petroleum	Made from Coal	Made from Petroleum
Newfoundland	...	...	...	...	...	...
Nova Scotia	...	...	...	...	...	...
Quebec	7,221	...	6,241	106	5,576	...
Ontario	575,807	362,419	501,223	293,886	305,326	278,082
Manitoba	11,727	...	9,886	...	9,348	...
Saskatchewan	1,194	...	2,484	...	2,346	...
British Columbia	2,494	69	1,146	27	1,120	68
Alberta	...	...	...	...	...	...
Total	598,443	362,488	520,980	294,019	323,716	278,150

Imports of Coal for each year since 1919, through ports in the Provinces of Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and Yukon.

BITUMINOUS COAL

Year	Central Ontario	Port Arthur	Fort Frances	Fort William	Total Ontario	Manitoba	Saskatchewan	Alberta	B.C. & Yukon	Total Canada
1919	7,641,682	483,991	59,253	1,063,793	9,248,719	62,746	1,406	1,131	6,700	12,010,490
1920	10,261,237	571,879	111,957	1,391,903	12,336,709	43,547	535	607	13,128	15,902,632
1921	8,605,872	659,763	127,956	1,316,155	10,709,746	76,833	2,127	1,820	17,081	13,536,250
1922	7,424,171	445,019	68,082	1,517,250	9,454,522	74,848	1,484	1,147	13,966	11,563,467
1923	11,621,859	619,037	95,439	1,731,667	14,068,002	112,134	1,607	1,110	17,919	17,517,108
1924	8,763,676	403,388	70,259	1,500,525	10,737,848	143,609	2,422	1,209	25,049	12,619,082
1925	9,100,462	286,984	81,173	497,264	9,884,710	147,758	1,732	1,175	40,286	13,015,323
1926	10,531,095	199,908	83,182	965,105	11,696,108	149,374	1,887	1,515	32,992	13,802,242
1927	11,572,678	221,694	90,864	1,273,691	13,158,927	142,860	2,141	1,324	22,648	15,178,640
1928	10,539,408	194,718	103,594	1,481,228	12,318,948	97,002	2,536	1,360	18,682	13,966,183
1929	11,232,027	143,889	100,141	1,591,656	13,067,713	38,801	2,477	1,327	18,526	14,585,275
1930	10,421,748	165,499	70,403	1,297,939	11,955,589	24,898	1,816	1,351	8,886	13,345,308
1931	8,553,736	86,810	65,738	609,279	9,315,563	7,041	1,535	912	2,308	10,347,280
1932	6,867,307	62,019	48,195	691,831	7,670,072	12,298	1,459	830	3,582	8,532,318
1933	7,038,386	74,934	30,108	482,206	7,625,634	13,213	1,327	998	26,077	8,427,656
1934	8,472,143	126,671	37,085	602,510	9,238,409	12,103	1,235	1,302	2,301	10,268,945
1935	8,032,739	6,033	53,145	591,810	8,683,727	9,918	952	1,136	3,722a	9,549,457b
1936	8,448,795	156,229	67,784	688,950	9,361,758	14,101	847	1,205	3,524d	10,200,253e
1937	9,946,567	128,595	69,598	820,160	10,964,920	12,079	743	1,293	2,540g	12,241,270h
1938	7,981,712	113,746	56,806	698,371	8,850,635	9,061	783	1,116	2,701k	9,567,334l
1939	8,035,174	77,532	53,772	528,887	8,695,365	15,035	862	990	1,808n	9,903,613o
1940	11,312,806	28,363	30,138	503,782	11,875,089	7,066	692	795	2,591	13,578,705x
1941	13,910,140	29,608	26,523	765,376	14,731,647	10,021	671	1,062	1,646	17,867,068
1942	14,397,298	292,783	51,942	1,212,815	15,954,838	21,568	773	789	1,573	20,807,005
1943	15,524,762	152,955	262,893	2,425,150	18,365,760	90,293	732	1,002	1,611	24,393,798
1944	15,654,562	271,617	364,674	2,195,070	18,485,923	16,255	556	935	1,236	24,513,527
1945	14,236,472	262,266	290,850	1,320,728	16,110,322	20,397	642	1,221	1,682	21,176,811xx
1946	14,272,178	331,674	322,295	1,946,218	16,872,365	16,265	686	1,038	1,790	22,000,398xxx
1947	16,827,356	340,450	396,647	1,972,434	19,536,887	26,146	560	806	1,866	25,841,440xxxx
1948	17,774,268	3,142,251*	....	....	20,916,519	78,047	485	.....	29,686	25,907,103xxxxx
1949	11,848,120	1,385,640*	....	....	13,233,760	45,609	...	124	6,114	15,799,509
1950	17,224,711	1,482,394*	....	....	18,707,105	32,891	250	.....	3,230	22,593,468
1951	16,682,920	1,868,498*	....	....	18,551,418	28,847	459	.....	781	22,459,357
1952	15,304,729	1,920,402*	....	....	17,225,131	37,040	446	......	540	20,697,298
1953	15,791,268	1,041,816*	....	....	16,833,084	43,713	549	.....	465	19,485,972

See Note over page.

x Consists of 13,382,389 tons from the United States and 196,316 tons from Great Britain.
xx Consists of 21,176,805 tons from the United States and 6 tons from Great Britain.
xxx Consists of 22,000,314 tons imported from the United States and 84 tons from Great Britain.
xxxx Consists of 25,839,917 tons imported from the United States, 1,087 tons imported from Great Britain, 431 tons from Belgium and 5 tons from Alaska
xxxxx Includes briquettes and lignite coal.
* Includes Fort Frances and Fort William.

ANTHRACITE COAL

1919	2,977,913	119,234	559	346,442	3,444,148	12,906	...	66	136	4,972,283
1920	2,943,134	69,206	2,648	226,476	3,241,464	17,509	206	517	75	4,912,964
1921	2,809,189	62,782	138	198,108	3,070,217	33,473	254	66	251	4,567,370
1922	1,586,924	21,507	12	36,018	1,644,461	14,715	231	...	61	2,693,957
1923	3,061,779	28,229	129	54,329	3,144,766	55,856	2,291	...	174	5,167,881
1924	2,599,568	4,775	237	84,513	2,689,093	34,222	1,720	...	687	4,183,594
1925	2,203,281	37	170	50,731	2,254,049	34,396	702	30	246	3,798,744
1926	2,458,674	.....	56	60,810	2,519,494	17,990	464	...	5,202	4,242,932
1927	2,123,515	.....	51	79,283	2,202,849	15,885	484	...	3,812	4,063,619
1928	2,179,022	.....	42	57,494	2,236,558	10,130	579	...	2,241	3,737,333
1929	2,246,063	352	303	52,369	2,299,087	9,180	365	...	597	4,019,917
1930	2,080,457	.....	224	45,241	2,125,922	8,323	367	...	1,123	4,256,090
1931	1,615,643	.....	...	18,302	1,633,945	3,695	...	...	33	3,178,141
1932	1,250,755	.....	3	12,677	1,263,435	3,800	...	3	702	3,138,157
1933	1,129,041	.....	8	8,742	1,137,791	5,669	57	75	3,657	3,035,613
1934	1,374,881	.....	3,030	7,934	1,385,845	6,086	...	...	282	3,537,309
1935	1,370,119	.....	19	9,455	1,379,593	5,852	40	...	1,600	3,451,318e
1936	1,436,613	.....	135	16,350	1,453,098	5,884	58	...	1,151	3,530,040f
1937	1,608,653	.....	8	21,052	1,629,713	5,639	66	34	61	3,572,268j
1938	1,697,601	.....	69	16,050	1,713,720	4,674	39	...	280	3,714,001m
1939	2,043,142	.....	297	18,459	2,061,898	4,696	...	33	...	3,977,805p
1940	2,033,585	.....	...	10,571	2,044,156	4,466	34	...	236	3,964,862q
1941	2,343,406	.....	...	...	2,362,433	10,021	...	16	30	3,940,859
1942	2,807,479	.....	...	...	2,816,165	7,093	...	23	...	4,802,023
1943	2,502,024	.....	...	...	2,513,199	16,336	...	7	110	4,458,519
1944	2,528,190	.....	...	...	2,535,976	9,723	...	4	62	4,413,227
1945	2,008,208	.....	42	2,932	2,010,182	6,198	1	1	6,200	3,411,424x
1946	2,776,497	1,977	513	13,394	2,792,381	11,718	...	...	...	4,639,347xx
1947	2,912,629	1,831	126	9,825	2,924,411	10,797	...	11	51	4,464,007xxx
1948	3,287,858	56,708*	...	...	3,344,566	3,197	...	...	2,116	5,142,529xxxx
1949	2,414,784	53,753*	...	...	2,468,537	1,935	302	...	...	4,080,147
1950	2,720,328	28,348*	...	...	2,748,676	2,500	270	...	...	4,467,111
1951	2,435,439	27,619*	...	...	2,463,058	90	...	...	5	3,891,832
1952	2,333,816	9,552*	...	...	2,343,368	7	...	...	2	3,732,973
1953	1,786,019	3,319*	...	...	1,789,338	187	...	...	3	2,931,599

x Consists of 3,383,042 tons imported from the United States and 28,382 from Great Britain.
xx Consists of 4,537,852 tons from the United States and 101,496 from Great Britain.
xxx Consists of 4,412,285 tons imported from the United States and 51,722 from Great Britain.
xxxx Consists of 4,966,775 tons imported from the United States and 175,754 from Great Britain.
* Includes Fort Frances and Fort William.

(a) Includes imports into the Yukon Territory of 10 tons in July and 10 in October.

(b) Consists of 9,168,428 tons imported from the United States, 380,645 tons from Great Britain, 43 tons from Alaska, 285 tons imported from Norway, 55 tons from Esthonia and 1 ton from Poland.

(c) Consists of 1,670,085 tons from United States, 1,454,521 tons from Great Britain, 205,045 tons from Germany, 67,220 tons from Belgium and 54,447 tons from French Indo-China.

(d) Includes imports into the Yukon Territory of 4 tons in April, 3 tons in May, 6 in June, 45 in July, 2 in October.

(e) Consists of 10,042,127 tons imported from the United States, 149,905 tons from Great Britain, 9,421 tons from Germany, 361 tons from Norway, 124 tons from Denmark, 45 tons from Sweden, 35 tons from the Netherlands, 134 tons from Esthonia and 286 tons from Newfoundland.

(f) Consists of 1,685,848 tons imported from the United States, 1,331,279 tons from Great Britain, 359,994 tons from Germany, 33,543 tons from Belgium, 122,572 tons from French Indo-China, 16,231 tons from the Netherlands and 1,120 tons from China.

(g) Includes imports into the Yukon Territory of 4 tons in March, 6 tons in June, 45 tons in July and 2 tons in October.

(h) Consists of 12,333,378 tons imported from the United States, 56,073 tons from Great Britain, 54,061 tons from Germany, 113 tons from Norway, and 200 tons from Esthonia.

(j) Consists of 2,003,317 tons imported from United States, 1,134,855 tons from Great Britain, 258,257 tons from Germany, 8,131 tons from Belgium, 154,495 tons from Russia and 78 tons from Morocco.

(k) Includes imports into the Yukon Territory of 8 tons in March, 10 tons in July, and 8 tons in October.

(l) Consists of 9,644,020 tons imported from the United States, 1,199,131 tons from Great Britain, 407,031 from Germany, and 417 tons from Japan.

(m) Consists of 1,973,610 tons from the United States, 1,199,131 tons from Great Britain, 407,031 from Germany, 34,182 tons from Belgium, 14,952 tons from Russia, 19,645 tons from Morocco, 37, 594 tons from the Netherlands and 30,302 tons from French Indo-China.

(n) Includes imports into the Yukon Territory of 15 tons in July and 8 tons in December.

(o) Consists of 9,836,110 tons imported from the United States, 67,483 tons from Great Britain and 20 tons from Norway.

(p) Consists of 2,605,765 tons from the United States, 1,034,901 tons from Great Britain, 293,602 tons from Germany and 43,537 tons from French Indo-China.

(q) Consists of 2,643,588 tons from the United States and 1,321,274 tons from Great Britain.

Imports of Coal into Ontario, Manitoba, Saskatchewan, Alberta, British Columbia and Canada, by months during 1953:

BITUMINOUS COAL

	Central Ontario	Head of Lakes	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total Canada
January	395,038	18,556	413,594	8,882	...	...	...	577,467
February	349,908	9,794	359,702	4,726	141	...	86	525,983
March	445,446	7,426	452,872	3,922	51	...	72	634,214
April	1,367,318	126,094	1,493,412	1,185	42	...	...	1,728,803
May	2,174,447	175,708	2,350,155	638	...	...	53	2,661,814
June	1,855,168	157,467	2,012,635	369	139	...	56	2,307,387
July	1,893,916	137,221	2,031,137	514	...	...	...	2,253,007
August	2,004,004	145,830	2,149,834	1,095	...	...	...	2,425,793
September	1,796,687	115,420	1,912,107	5,794	123	...	57	2,125,143
October	1,835,281	104,016	1,939,297	5,152	22	...	...	2,173,844
November	1,349,569	41,373	1,390,942	5,193	...	...	141	1,634,795
December	324,486	2,911	327,397	6,243	31	...	...	437,722
Total	15,791,268	1,041,816	16,833,084	43,713	549	...	465	19,485,972

ANTHRACITE COAL

	Central Ontario	Head of Lakes	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total Canada
January	125,117	...	125,117	42	...	...	...	190,718
February	101,090	...	101,090	...	...	...	...	152,460
March	89,940	...	89,940	37	...	...	3	143,893
April	69,202	...	69,202	...	...	...	...	107,431
May	176,500	1,952	178,452	...	...	...	...	286,203
June	197,251	...	197,251	...	...	...	...	341,940
July	150,855	...	150,855	...	...	...	...	264,268
August	164,601	...	164,601	...	...	...	...	276,598
September	218,091	1,367	219,458	...	...	...	...	362,211
October	222,715	...	222,715	...	...	...	...	375,721
November	168,133	...	168,133	46	...	...	...	284,508
December	102,524	...	102,524	62	...	...	...	145,648
Total	1,786,019	3,319	1,789,338	187	...	...	3	2,931,599

GRAND TOTAL IMPORTATIONS

	Central Ontario	Head of Lakes	Total Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Total Canada
Bituminous	15,791,268	1,041,816	16,833,084	43,713	549	...	465	19,485,972
Anthracite	1,786,019	3,319	1,789,338	187	...	...	3	2,931,599
Total	17,577,287	1,045,135	18,622,422	43,900	549	...	468	22,417,571

MINERAL PRODUCTION IN ALBERTA DURING 1952 and 1953

Prepared in the Mining, Metallurgical and Chemical Branch, Ottawa, Canada

	1952		1953	
	Quantity	Value	Quantity	Value
METALLICS:				
Gold, fine ounces	97	3,574	111	3,804
Silver, fine ounces	9	8	10	8
NON-METALLICS:				
Coal, short tons	7,659,329	40,981,581	7,194,757	39,908,362
Natural gas, M. cu. ft.	69,876,831	3,493,842	79,149,895	5,936,242
Quartz, tons	...	...	373	7,446
Petroleum, crude, barrels	45,915,384	113,870,152	58,915,723	139,512,432
Salt, tons	19,718	472,562	24,380	614,522
CLAY PRODUCTS AND OTHER STRUCTURAL MATERIALS:				
Cement, barrels	1,649,909	3,898,043	1,886,544	4,765,686
Clay Products	...	1,787,731	...	1,964,618
Lime	30,670	395,452	30,006	415,348
Sand and gravel, tons	4,289,021	3,194,446	5,066,403	3,590,687
Stone, tons	13,310	46,820	22,773	92,499
Total	...	168,144,211	...	196,811,654

PARTICULARS WITH REFERENCE TO THE COAL MINING INDUSTRY IN THE PROVINCE OF ALBERTA DURING THE YEAR ENDING DECEMBER 31, 1953.

SUMMARY OF STATISTICS

Number of short tons of coal produced	5,917,423
Number of short tons of briquettes and fabricoal made	665,556
Number of short tons of shale, clay and limestone produced	1,312,877
Number of quarries in operation during the year	8
Number of coal mines in operation during the year	146
Number of mines opened during the year	5
Number of mines re-opened during the year	63
Number of mines closed during the year	73
Number of mines abandoned during the year	19
Number of mines in operation at December 31st, 1953	123
51 mines or 34.93% of the total operating produced 0.27% of the output	
33 mines or 22.60% of the total operating produced 1.42% of the output	
17 mines or 11.64% of the total operating produced 2.17% of the output	
15 mines or 10.27% of the total operating produced 5.67% of the output	
11 mines or 7.54% of the total operating produced 14.30% of the output	
6 mines or 4.11% of the total operating produced 13.53% of the output	
1 mine or 0.69% of the total operating produced 2.62% of the output	
8 mines or 5.48% of the total operating produced 32.51% of the output	
4 mines or 2.74% of the total operating produced 27.51% of the output	
Average number of persons employed below ground	3,386
Average number of persons employed above ground	1,601
Average number of persons employed at strip mining	773
Average number of days worked	168.5
Total number of eight-hour manshifts	1,141,531
Number of separate accidents causing loss of life	6
Number of deaths caused by accidents above ground	4
Number of deaths caused by accidents below ground	6
Number of serious accidents above ground	14
Number of serious accidents below ground	45
Number of slight accidents above ground	12
Number of slight accidents below ground	48
Number of serious accidents in quarries	1
Total purchased electric power (Kilowatt hours)	58,500,593
Number of prosecutions instituted	16
Number of Provisional Overmen's Certificates issued during 1953	46
Number of Provisional Examiners' Certificates issued during 1953	2
Number of Provisional Electricians' Certficates issued during 1953	9
Number of Provisional Foremen's Certificates issued during 1953	18
Number of Provisional Blasters' (Strip Mine) Certificates issued during 1953	9
Number of Provisional Blasters' (Quarry) Certificates issued during 1953	12
Number of Provisional Miners' Certificates issued during 1953	75
Number of Miners' Permits issued during 1953	341
Number of Miners' Certificates issued during 1953	189
Number of Miners' Duplicate Certificates issued during 1953	28
Number of First Class Certificates issued during 1953	3
Number of Second Class Certificates issued during 1953	2
Number of Third Class Certificates issued during 1953	9
Number of Mine Surveyors' Certificates issued during 1953	4
Number of First Class Mine Electricians' Certificates issued during 1953	6
Number of Strip Mine Managers' Certificates issued during 1953	5
Number of Foremen's Certificates issued during 1953	13
Number of Blasters' (Strip Mine) Certificates issued during 1953	3
Number of Blasters' (Quarry) Certificates issued during 1953	6
Number of First Class Certificates issued up to Dec. 31, 1953	311
Number of Second Class Certificates issued up to Dec. 31, 1953	616
Number of Third Class Certificates issued up to Dec. 31, 1953	1,835
Number of Mine Surveyors' Certificates issued up to Dec. 31, 1953	240
Number of First Class Mine Electricians' Certificates issued up to Dec. 31, 1953	159
Number of Second Class Mine Electricians' Certificates issued up to Dec. 31, 1953	31
Number of Strip Mine Managers' Certificates issued up to Dec. 31, 1953	155
Number of Foremen's Certificates issued up to Dec. 31, 1953	199
Number of Blasters' (Strip Mine) Certificates issued up to Dec. 31, 1953	53
Number of Miners' Certificates issued up to Dec. 31, 1953	20,516

PARTICULARS OF WORK DONE IN QUARRIES IN THE PROVINCE OF ALBERTA DURING 1953

Number of short tons of shale, clay and limestone from quarries		1,312,877
Number of short tons of shale, clay and limestone imported		195,336
Number of short tons of shale used making bricks		473,934
Number of short tons of shale used making hollow tile		26,441
Number of short tons of limestone used making cement		931,300
Number of short tons of limestone used making lime		37,884
Number of short tons of limestone used making rock dust		38,654
Total number of men employed		158
Total number of shifts worked		50,608
Number of pounds of explosives used		237,548
Total number of shots fired		27,914
Total number of miss-shots		37
Total number of bricks made		29,645,754
Total number of bricks put to stock		670,736
Total number of bricks lifted from stock		1,081,000
Bricks sold for use in: Alberta	17,805,119	
Saskatchewan	7,355,972	
British Columbia	3,801,527	
Manitoba	987,900	
Ontario	105,500	
Total	30,056,018	
Number of tons of hollow tile made		26,441
Number of tons of hollow tile put to stock		218
Number of tons of hollow tile lifted from stock		10,007
Number of tons of hollow tile sold		36,230

In the following tables the short ton of 2,000 lbs. is used in all cases.

Year	Output in tons for N.W.T. (Alta. & Sask.)	Output in tons for Alberta.
1901	346,649	....
1902	510,674	....
1903	622,939	....
1904	782,931	....
1905	....	811,228
1906	....	1,385,000
1907	....	1,834,745
1908	....	1,845,000
1909	....	2,174,329
1910	....	3,036,757
1911	....	1,694,564
1912	....	3,446,349
1913	....	4,306,346
1914	....	3,821,739
1915	....	3,434,891
1916	....	4,648,604
1917	....	4,863,414
1918	....	6,148,620
1919	....	5,022,412
1920	....	6,908,923
1921	....	5,937,195
1922	....	5,976,432
1923	....	6,866,923
1924	....	5,203,713
1925	....	5,883,394
1926	....	6,508,908
1927	....	6,936,780
1928	....	7,334,179
1929	....	7,147,250
1930	....	5,755,911
1931	....	4,563,309
1932	....	4,867,984
1933	....	4,714,784
1934	....	4,748,848
1935	....	5,462,973
1936	....	5,696,375
1937	....	5,551,682
1938	....	5,230,015
1939	....	5,518,105
1940	....	6,205,088
1941	....	6,970,064
1942	....	7,754,279
1943	....	7,677,982
1944	....	7,427,433
1945	....	7,801,248
1946	....	8,824,455
1947	....	8,074,596
1948	....	8,111,013
1949	....	8,616,983
1950	....	8,118,206
1951	....	7,661,276
1952	....	7,194,472
1953	....	5,917,423

CLASSIFICATION OF OUTPUT DURING THE YEARS 1901 to 1953 INCLUSIVE

Year	Domestic	Domestic and Bituminous	Sub-Bituminous	Bituminous	Anthracite	Coal used in coke Production	Briquettes	Coke
1901.......	....	331,907	....	....	14,742	....	....	....
1902.......	....	494,087	....	....	16,587	....	....	....
1903.......	....	617,754	....	....	5,185	....	....	....
1904.......	....	759,568	....	....	23,363	....	....	....
1905.......	....	972,686	....	....	43,653	71,292	....	46,640
1906.......	602,780	....	....	546,623	235,597	103,930	....	69,844
1907.......	639,335	....	....	939,295	256,115	112,887	49,585	73,782
1908.......	584,334	....	....	1,011,571	249,095	128,397	36,261	75,657
1909.......	763,673	....	....	1,197,399	213,257	148,104	89,785	87,812
1910.......	878,011	....	....	1,896,961	261,785	196,249	108,996	121,578
1911.......	964,700	....	....	649,745	80,119	61,591	48,200	35,984
1912.......	1,341,389	....	....	1,926,371	178,589	170,818	90,000	105,684
1913.......	1,763,225	....	....	2,374,401	168,720	104,012	130,861	65,167
1914.......	1,697,401	....	....	1,953,367	170,971	44,249	109,082	29,058
1915.......	1,682,922	....	....	1,626,237	125,732	38,878	83,180	23,826
1916.......	2,172,801	....	....	2,335,259	140,544	67,105	107,959	41,950
1917.......	2,537,829	....	....	2,206,868	118,717	51,905	93,818	31,630
1918.......	3,035,061	....	....	2,982,334	131,225	53,462	100,470	32,858
1919.......	2,611,009	....	....	2,325,787	85,616	....	70,033	....
1920.......	3,359,309	....	....	3,419,021	130,594	....	101,693	....
1921.......	2,943,141	....	....	2,897,380	96,674	....	62,466	....
1922.......	3,086,669	....	635,073	2,214,273	40,417	....	33,663	....
1923.......	3,161,741	....	463,461	3,241,614	107	....	39,638	....
1924.......	3,096,660	....	591,946	1,515,107	....	....	....	....
1925.......	3,156,359	....	581,835	2,145,200	....	....	791	....
1926.......	3,160,029	....	490,371	2,858,508	....	....	11,381	....
1927.......	3,357,171	....	595,190	2,984,419	....	287	20,649	173
1928.......	3,378,200	....	740,498	3,215,481	....	....	24,768	....
1929.......	3,385,749	....	668,108	3,093,393	....	....	28,167	....
1930.......	2,874,090	....	603,331	2,278,490	....	....	24,111	....
1931.......	2,245,563	....	471,389	1,846,357	....	....	15,102	....
1932.......	2,574,785	....	559,479	1,733,720	....	4,591	13,582	2,183
1933.......	2,434,047	....	554,141	1,726,596	....	75,275	14,935	49,279
1934.......	2,295,566	....	537,542	1,915,740	....	91,745	15,906	59,703
1935.......	2,647,912	....	566,436	2,248,625	....	98,233	18,812	63,428

1936......	2,841,231	....	566,486	2,288,658	....	97,353	21,015	65,349
1937......	2,631,150	....	506,529	2,414,003	....	99,537	27,044	65,967
1938......	2,453,263	....	488,912	2,287,850	....	103,498	39,239	68,692
1939......	2,449,199	....	512,105	2,556,801	....	103,191	48,510	68,913
1940......	2,537,205	....	598,686	3,069,197	....	105,926	66,127	70,753
1941......	2,713,254	....	585,453	3,671,357	....	105,390	126,188	70,354
1942......	3,213,113	....	733,547	3,807,619	....	107,410	197,905	71,572
1943......	3,416,037	....	791,952	3,469,993	....	101,132	222,106	67,348
1944......	3,146,801	....	729,427	3,551,205	....	101,633	253,592	67,821
1945......	....	....	3,200,485	4,600,763	....	64,280	250,274	43,180
1946......	....	....	3,434,859	5,389,596	....	64,878	275,646	43,206
1947......	....	....	3,237,220	4,837,376	....	81,128	282,898	52,627
1948......	....	....	3,190,217	4,920,796	....	78,795	321,574	45,718
1949......	....	....	3,121,656	5,495,327	....	91,361	460,643	54,922
1950......	....	....	3,325,186	4,793,020	....	23,079	409,855	16,637
1951......	....	....	3,001,987	4,659,289	....	6,957	345,768*	3,959
1952......	....	....	2,815,850	4,378,622	....	3,474	661,862*	574
1953......	....	....	2,399,924	3,517,499	....	......	665,556*	......

1901 to 1905 includes outputs from Alberta and Saskatchewan. Previous to 1922 sub-bituminous coal was included in bituminous coal.

During the year 1909 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1911 a strike affecting all the larger mines in the Province, lasted for a period of eight months.
During the year 1917 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1919 a strike affecting all the larger mines in the Province, lasted for a period of three months.
During the year 1922 a strike affecting all the larger mines in the Province, lasted for a period of five months.
During the year 1924 a strike affecting all the larger mines in the Province, lasted for a period of six months and one-half.
* 1,742 tons of Fabricoal, in 1951, 8,266 tons in 1952 and 945 tons in 1953.

Total Output of Coal disposed of during 1953

Areas	Sold for Consumption in:							Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Fabricoal	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	United States	Sold to Railroad Companies										
Bituminous	160698	68806	547860	83200	41359	47028	1625783	2574734	97510	1152	633448	...	674288	252698	646762	69569	3517499
S.Bituminous	884784	965788	311525	191558	31758	91	...	2385504	2686	...	...	945	32760	4349	17287	9033	2399924
Total	1045482	1034594	859385	274758	73117	47119	1625783	4960238	100196	1152	633448	945	707048	257047	664049	78602	5917423
Briquettes	9079	2951	30373	30195	15983	...	575262	663843	...	...	...	...	14643	...	13875	...	664611
Coke	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fabricoal	854	36	55	...	...	...	...	945	...	...	...	...	...	...	...	...	945

How the total Output of BITUMINOUS COAL from the Province was disposed of by areas during 1953

Areas:	Sold for Consumption in:								Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	Japan	United States	Sold to Railroad Companies										
Group 1:																		
Cascade	618	1552	8005	2469	4581	...	317	151782	169324	11992	972	69781	...	198862	...	212323	...	238608
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	417	...	...	...	...	...	...	...	417	8755	...	266073	...	4324	...	3769	...	275800
Group 2:																		
Crowsnest	37929	6815	153122	27772	2858	...	46567	1116859	1391922	16503	180	105878	...	416049	228516	391915	69552	1697581
Mtn. Park	828	511	92590	17956	...	...	...	161855	273740	17225	...	191716	...	...	...	...	...	482681
Group 3:																		
Coalspur	25196	16245	268448	25079	27423	...	...	195287	557678	38938	...	...	...	45135	23976	29641	...	636086
Halcourt	128	...	...	...	...	...	...	...	128	...	...	...	...	...	...	...	...	128
Lethbridge	87163	39096	23322	7026	3398	...	144	...	160149	2158	...	...	...	7925	156	6979	17	163392
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	4403	188	2041	80	...	...	...	...	6712	...	...	...	...	...	...	...	...	6712
Pincher	56	...	...	...	...	...	...	...	56	...	...	...	...	...	30	...	...	86
Pr. Creek	947	...	135	...	...	...	...	...	1082	...	...	...	...	93	20	93	...	1102
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	3013	4399	197	2818	3099	...	...	...	13526	1939	...	...	...	1900	...	2042	...	15323
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	160698	68806	547860	83200	41359	...	47028	1625783	2574734	97510	1152	633448	...	674288	252698	646762	69569	3517499

How the total Output of SUB-BITUMINOUS COAL from the Province was disposed of by areas during 1953

Areas:	Sold for Consumption in:						Total Sales	Used under Colliery Boilers	Used making Fabricoal	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	United States								
Group 4:														
Ardley	44034	...	...	...	...	...	44034	...	...	...	2813	...	...	46847
Big Valley	1202	...	...	...	...	...	1202	...	945	...	227	...	401	1973
Brooks	25793	20986	4744	5459	1182	...	58164	...	...	4360	100	5293	8632	48699
Carbon	38915	...	...	1292	...	...	40207	8	...	...	292	...	...	40507
Champion	5679	...	...	...	...	...	5679	...	...	...	...	...	...	5679
Drumheller	199166	545097	122542	121713	20970	...	1009488	2299	...	26312	...	10032	...	1028067
Edmonton	226892	2401	1083	2115	1006	...	233497	229	...	...	...	665	...	233061
Gleichen	9303	...	...	...	...	...	9303	...	...	...	...	...	...	9303
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	78675	60647	126115	3944	1471	...	270852	...	...	...	...	120	...	270732
Taber	22108	7795	8861	3964	623	...	43351	...	...	202	...	...	...	43553
Wetaskiwin	220	...	...	...	...	...	220	...	...	...	...	...	...	220
Whitecourt	565	...	...	...	...	...	565	...	...	...	...	...	...	565
No Area	64	...	...	...	...	...	64	...	...	...	...	...	...	64
Group 5:														
Camrose	34555	11022	5272	657	507	91	52104	...	...	140	...	...	...	52244
Castor	113769	234753	38489	36839	1071	...	424921	...	...	716	598	...	...	426235
Pakowki	45	...	...	...	...	...	45	...	...	...	...	...	...	45
Redcliff	4315	37	...	37	...	...	4389	...	...	600	...	650	...	4339
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	26398	57205	2668	7055	3433	...	96759	...	...	200	190	427	...	96722
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	42995	25845	1751	8483	1495	...	80569	150	...	...	...	...	...	80719
Westlock	10091	...	...	...	...	...	10091	...	...	230	129	100	...	10350
Total:	884784	965788	311525	191558	31758	91	2385504	2686	945	32760	4349	17287	9033	2399924

How the total output of COAL from the Province was disposed of by months during 1953

Months	Sold for Consumption in:								Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Coke	Used making Fabricoal	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	Japan	United States	Sold to Railroad Companies											
January	166535	143723	93906	37835	10492	...	4798	160473	617762	9509	50	50364	...	594	51957	26711	50890	8957	697100
February	92600	64771	72600	18822	6646	...	4586	133425	393450	8854	112	46982	...	351	44158	19700	56037	7891	449679
March	72590	61122	64391	11391	2416	...	3780	139538	355228	9056	94	29898	...	...	52824	21390	50272	7660	410558
April	40427	54046	56240	7057	601	...	2866	109613	270850	8770	82	37998	...	...	52950	14048	51008	6918	326772
May	30828	50257	45290	8496	1398	...	2750	152958	291977	7588	91	53530	...	...	52741	21198	50292	5346	371487
June	30507	49264	39331	10540	930	...	2737	145107	278416	5250	99	61497	...	...	54090	20361	50070	7658	361985
July	23868	53506	48981	12311	3974	...	3717	145547	291904	10723	99	55633	...	...	66219	23247	50364	10202	387259
August	35291	50467	48489	13669	4535	...	3388	120078	275917	6636	63	50502	...	...	62795	17742	56460	6046	351149
September	81362	93613	81139	32181	9476	...	4482	109759	412012	7440	123	44941	...	...	60339	17548	61040	4648	476715
October	147519	139435	109577	40748	13417	...	4876	134404	589976	8189	113	67077	...	...	70641	25975	58318	5438	698215
November	181943	143704	99375	39656	11005	...	3355	128610	607648	8070	113	61921	...	...	75180	22819	65896	3769	706086
December	142012	130686	100066	42052	8227	...	5784	146271	575098	10111	113	73105	...	...	63154	26308	63402	4069	680418
Total	1045482	1034594	859385	274758	73117	...	47119	1625783	4960238	100196	1152	633448	...	945	707048	257047	664049	78602	5917423
% of Total Sales	21.08	20.86	17.32	5.54	1.47	...	0.95	32.78											

How the total output of BITUMINOUS COAL was disposed of by months during 1953

Months	Sold for Consumption in:								Total Sales	Used under Colliery Boilers	Used by Colliery Railroads	Used making Briquettes	Used making Coke	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	Japan	United States	Sold to Railroad Companies										
January	21627	7762	57716	11399	5320	...	4754	160473	269051	9113	50	50364	...	50824	26115	49756	4169	351592
February	12541	3493	49579	4645	4359	...	4586	133425	212628	8489	112	46982	...	43479	19243	53027	5906	272000
March	9272	2482	41768	2601	1480	...	3780	139538	200921	8707	94	29898	...	52652	21151	45983	7259	260181
April	8293	1505	35077	2668	351	...	2866	109613	160373	8589	82	37998	...	52670	13965	50111	5059	218507
May	5792	2077	31620	3665	957	...	2750	152958	199819	7452	91	53530	...	51494	21159	50025	5346	278174
June	6485	3832	21287	4069	201	...	2737	145107	183718	5144	99	61497	...	51733	20338	49340	7658	265531
July	5947	4044	37862	6018	2935	...	3717	145547	206070	10650	99	55633	...	63545	23201	49617	10202	299379
August	7671	3037	33530	4547	2669	...	3341	120078	174873	6548	63	50502	...	59360	17682	55570	6046	247412
September	16882	6716	47492	9421	5338	...	4482	109759	200090	7285	123	44941	...	57228	17225	60089	4648	262155
October	23038	12801	68545	12328	6685	...	4876	134404	262677	7963	113	67077	...	66093	25097	56673	5438	366909
November	22847	13338	60549	10319	5870	...	3355	128610	244888	7783	113	61921	...	67487	21683	64899	3769	335207
December	20303	7719	62835	11520	5194	...	5784	146271	259626	9787	113	73105	...	57723	25839	61672	4069	360452
Total	160698	68806	547860	83200	41359	...	47028	1625783	2574734	97510	1152	633448	...	674288	252698	646762	69569	3517499
% of Total Sales	6.24	2.67	21.28	3.23	1.61	...	1.83	63.14										

How the total output of SUB-BITUMINOUS COAL was disposed of by months during 1953

Months	Sold for Consumption in:						Total Sales	Used under Colliery Boilers	Used making Fabricoal	Put to Stock	Put to Waste	Lifted from Stock	Lifted from Waste	Total Output
	Alberta	Saskatchewan	British Columbia	Manitoba	Ontario	United States								
January	144908	135961	36190	26436	5172	44	348711	396	594	1133	596	1134	4788	345508
February	80059	61278	23021	14177	2287	...	180822	365	351	679	457	3010	1985	177679
March	63318	58640	22623	8790	936	...	154307	349	...	172	239	4289	401	150377
April	32134	52541	21163	4389	250	...	110477	181	...	280	83	897	1859	108265
May	25036	48180	13670	4831	441	...	92158	136	...	1247	39	267	...	93313
June	24022	45432	18044	6471	729	...	94698	106	...	2357	23	730	...	96454
July	17921	49462	11119	6293	1039	...	85834	73	...	2674	46	747	...	87880
August	27620	47430	14959	9122	1866	47	101044	88	...	3435	60	890	...	103737
September	64480	86897	33647	22760	4138	...	211922	155	...	3111	323	951	...	214560
October	124481	126634	41032	28420	6732	...	327299	226	...	4548	878	1645	...	331306
November	159096	130366	38826	29337	5135	...	362760	287	...	7693	1136	997	...	370879
December	121709	122967	37231	30532	3033	...	315472	324	...	5431	469	1730	...	319966
Total:	884784	965788	311525	191558	31758	91	2385504	2686	945	32760	4349	17287	9033	2399924
% of Total Sales	37.09	40.48	13.05	8.03	1.31	0.04								

Amount of Coal Sold During the Years 1915 to 1953 inclusive for consumption in:

Year	Alberta	B.C.	Sask.	Manitoba	Ontario	N.W.T.	Quebec	U.S.A.	To Railroads	Alaska	Total
1915............	2,129,130	54,860	695,898	64,816	...	...	...	25,047	...	...	2,969,751
1916............	2,866,670	86,413	1,007,765	97,265	...	...	...	61,092	...	...	4,119,205
1917............	2,813,413	76,397	1,139,771	249,872	...	...	...	93,081	...	...	4,372,534
1918............	3,440,154	101,189	1,372,439	511,168	629	...	...	133,276	...	...	5,558,855
1919............	2,991,110	95,461	1,115,329	314,290	308	...	...	121,212	...	...	4,637,710
1920............	1,647,202	128,850	1,310,146	600,962	13,911	...	30	153,610	2,516,555	...	6,371,266
1921............	1,415,861	116,089	1,294,441	495,388	9,898	...	...	133,823	2,023,204	...	5,488,704
1922............	1,443,942	107,920	1,371,249	520,518	21,573	...	102	105,514	2,076,291	...	5,647,109
1923............	1,382,788	108,326	1,223,454	533,639	52,334	...	...	83,557	3,110,121	...	6,514,219
1924............	1,431,327	114,186	1,189,788	510,407	16,525	...	...	39,142	1,613,574	...	4,914,949
1925............	1,440,032	117,037	1,297,653	509,655	28,831	...	...	40,507	2,139,716	...	5,573,431
1926............	1,325,290	127,858	1,296,131	591,267	74,559	...	221	48,216	2,706,440	...	6,170,032
1927............	1,508,089	187,023	1,427,904	612,542	22,680	...	...	45,160	2,759,765	...	6,563,168
1928............	1,409,475	262,198	1,511,141	605,125	44,265	...	...	52,265	3,054,239	...	6,938,708
1929............	1,446,555	236,840	1,455,213	588,647	55,335	...	33	51,625	2,923,827	...	6,758,075
1930............	1,234,382	227,385	1,221,542	541,537	29,784	...	32	44,291	2,120,237	...	5,419,190
1931............	1,020,694	171,610	905,574	442,761	27,036	...	100	30,434	1,668,451	...	4,266,660
1932............	1,134,311	136,188	1,097,382	497,006	20,583	...	135	27,366	1,619,921	...	4,532,892
1933............	1,123,357	120,911	1,052,910	449,681	39,437	...	32	18,449	1,500,061	...	4,304,838
1934............	1,087,898	127,638	986,639	391,132	55,947	31	...	13,739	1,687,850	...	4,350,874
1935............	1,246,959	221,758	1,120,816	435,813	64,659	...	...	24,712	1,960,555	...	5,075,272
1936............	1,356,690	244,928	1,238,730	450,740	65,886	...	...	27,397	1,969,569	...	5,353,940
1937............	1,326,054	269,023	1,085,812	437,954	62,521	82	...	41,328	2,028,389	...	5,251,163
1938............	1,278,932	238,435	1,011,207	413,663	74,111	83	...	32,507	1,871,852	...	4,920,790
1939............	1,241,618	239,227	1,044,367	409,046	90,206	...	...	33,139	2,109,684	...	5,167,287
1940............	1,311,644	237,642	1,019,035	354,357	133,587	14	...	35,354	2,720,793	...	5,812,926
1941............	1,335,606	304,928	1,052,913	430,663	234,606	...	...	32,742	3,090,290	...	6,481,749
1942............	1,474,795	652,222	1,259,669	580,336	231,258	...	...	98,197	2,864,586	...	7,171,063
1943............	1,560,212	864,911	1,455,612	627,368	1,190	...	...	414,627	2,098,535	...	7,071,753
1944............	1,424,293	678,960	1,225,075	533,027	10,163	...	...	266,664	2,583,101	1,064	6,742,643
1945............	1,567,940	868,396	1,242,001	541,832	278,814	...	...	162,698	2,416,803	...	7,098,928
1946............	1,608,296	982,413	1,449,002	658,733	348,137	...	...	137,271	2,893,207	...	8,136,694
1947............	1,671,130	899,403	1,475,006	583,414	162,898	...	...	91,235	2,504,604	...	7,433,989
1948............	1,593,629	945,700	1,413,283	625,009	202,520	...	58	84,492	2,312,273	...	7,377,914
1949............	1,614,306	891,132	1,232,890	629,456	187,976	...	...	45,972	3,012,425	...	7,617,632
1950............	1,672,519	873,558	1,366,723	586,920	312,563	...	...	105,765	2,308,365	...	7,226,413
1951............	1,427,114	898,533	1,322,162	492,737	182,753	...	...	80,270	2,443,326	...	6,891,212
1952............	1,234,307	1,021,484	1,241,716	384,924	126,381	...	...	71,817	2,065,365	...	6,147,582
1953............	1,045,482	859,385	1,034,594	274,758	73,117	...	...	47,119	1,625,783	...	4,960,238

NOTE: Previous to 1920 Railroad Coal was included in Total Sales. Included in the above totals are 49,298 tons for Ships Bunkers in 1943, 20,296 tons in 1944, 20,394 tons in 1945, 21,770 tons in 1946, 4,107 tons in 1947. The above also includes 37,865 tons shipped to China in 1946, 27,731 tons in 1947, also 14,461 tons to Japan in 1947, 200,947 tons in 1948, 3,475 tons to China in 1949, 44,317 tons to Japan in 1951, 1,588 tons in 1952.

Coal Produced by Years from 1949 to 1953:

BITUMINOUS COAL FIELD

Areas	1949	1950	1951	1952	1953
Group 1:					
Cascade	304,743	346,339	337,847	288,445	238,608
Highwood	2,958	...	...	56	...
Nordegg	338,280	154,272	9,934	293,426	275,800
Group 2:					
Crowsnest	2,465,426	2,043,659	2,391,251	2,167,738	1,697,581
Mountain Park	1,128,903	982,667	770,301	566,215	482,681
Group 3:					
Coalspur	810,675	794,957	751,909	748,186	636,086
Halcourt	282	297	936	1,057	128
Lethbridge	384,431	406,502	335,271	271,564	163,392
Morley	140	302	...	...	...
Pekisko	7,057	3,096	5,495	7,990	6,712
Pincher	870	734	5	...	86
Prairie Creek	321	297	1,126	1,881	1,102
Red Deer	...	...	71	38	...
Saunders	50,961	59,898	55,143	32,026	15,323
No Area	280	...	...	...	...
Total	5,495,327	4,793,020	4,659,289	4,378,622	3,517,499
SUB-BITUMINOUS COAL FIELD					
Group 4:					
Ardley	18,565	34,757	53,091	47,001	46,847
Big Valley	27,550	33,489	17,568	16,090	1,973
Brooks	119,815	86,369	75,648	47,046	48,699
Carbon	56,962	68,529	56,098	48,751	40,507
Champion	5,950	6,372	7,164	5,627	5,679
Drumheller	1,608,598	1,636,424	1,566,102	1,371,899	1,028,067
Edmonton	473,767	495,636	356,770	275,058	233,061
Gleichen	13,201	15,896	13,926	11,420	9,303
Milk River	1,302	733	408	368	...
Pembina	180,382	197,901	164,682	242,672	270,732
Taber	137,629	136,267	121,405	84,266	43,553
Wetaskiwin	1,411	1,459	872	812	220
Whitecourt	459	850	820	944	565
No Area	...	...	...	...	64
Group 5:					
Camrose	76,223	96,101	60,929	54,152	52,244
Castor	127,397	218,224	273,085	418,685	426,235
Pakowki	448	494	243	321	45
Redcliff	11,518	14,120	5,458	4,658	4,339
Rochester	520	261	193	...	...
Sheerness	56,684	62,919	56,004	59,879	96,722
Slave	75	88	...	...	...
Tofield	193,503	205,755	158,971	115,277	80,719
Westlock	9,697	12,542	12,550	10,924	10,350
Total	3,121,656	3,325,186	3,001,987	2,815,850	2,399,924

Total Output of BITUMINOUS COAL by areas during each month:

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	18925	10948	19531	17490	19141	21375	20035	9956	22845	27659	25879	24824	238608
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	26244	21425	13814	16728	21398	27659	26787	25072	23119	26139	19628	27787	275800
Group 2:													
Crowsnest	182968	137868	143969	97522	146052	132206	140591	122150	113960	164282	147984	168029	1697581
Mtn. Park	43737	45357	27530	36007	45659	45352	42242	31721	27605	48724	40700	48047	482681
Group 3:													
Coalspur	59125	47531	47316	44125	40621	30137	59632	49214	51865	67225	67000	72245	636086
Halcourt	81	18	21	...	...	...	...	...	...	...	8	...	128
Lethbridge	16890	6773	6683	6000	5066	8078	9272	7455	20025	29214	31249	16687	163392
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	1204	960	614	164	69	143	50	196	465	606	1216	1025	6712
Pincher	16	...	...	...	16	...	...	42	...	12	...	...	86
Pr. Creek	168	183	66	99	88	22	...	...	...	39	...	437	1102
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	2234	937	637	372	64	509	770	1606	2271	3009	1543	1371	15323
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	351592	272000	260181	218507	278174	265531	299379	247412	262155	366909	335207	360452	3517499

Total output of SUB-BITUMINOUS COAL by areas during each month:

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	7174	3865	2389	882	345	219	295	451	2343	8151	12087	8646	46847
Big Valley	768	483	115	16	10	3	21	43	77	139	124	174	1973
Brooks	4824	1852	989	245	...	...	...	1518	4577	12498	16692	5504	48699
Carbon	6834	4062	2993	1514	626	537	556	958	2363	6598	7689	5777	40507
Champion	686	378	322	246	127	81	159	351	548	1001	1076	704	5679
Drumheller	132111	63827	44379	44469	51320	61774	53416	68932	105592	133075	134959	134213	1028067
Edmonton	40990	23447	19737	6350	6479	6643	5620	6033	13450	27668	41800	34844	233061
Gleichen	1439	828	470	291	184	103	201	804	990	1196	1484	1313	9303
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	35381	25227	29422	26045	13981	15041	13594	7420	22244	26445	27890	28042	270732
Taber	4687	2270	1593	233	128	117	162	140	5935	11026	11152	6110	43553
Wetaskiwin	123	60	37	...	...	...	...	...	...	...	...	...	220
Whitecourt	162	43	20	...	...	...	...	...	...	...	151	189	565
No Area	...	...	...	...	...	...	...	...	...	...	...	64	64
Group 5:													
Camrose	7788	5045	4030	3602	3387	1182	584	994	3679	6950	8294	6709	52244
Castor	65662	29229	28695	17873	14181	8887	11941	13676	41656	65250	69131	60054	426235
Pakowki	17	7	...	7	...	...	...	...	8	...	6	...	45
Redcliff	297	195	67	12	...	500	238	392	461	951	803	423	4339
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	16389	9822	8127	3139	1719	1335	869	1956	5175	16926	17343	13922	96722
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	18074	6022	6458	3190	808	29	222	60	5283	12357	17218	10998	80719
Westlock	2102	1017	534	151	18	3	2	9	179	1075	2980	2280	10350
Total:	345508	177679	150377	108265	93313	96454	87880	103737	214560	331306	370879	319966	2399924

Total Sales of BITUMINOUS COAL for consumption by Railroad Companies:

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	6411	7905	14430	13251	12722	16978	14313	7978	13591	13617	14288	16298	151782
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	120565	93159	96667	66615	108037	97503	104284	83628	71374	86606	88278	100143	1116859
Mtn. Park	17227	15683	9548	11218	14918	13334	13859	11328	9601	17659	12890	14590	161855
Group 3:													
Coalspur	16270	16678	18893	18529	17281	17292	13091	17144	15193	16522	13154	15240	195287
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	160473	133425	139538	109613	152958	145107	145547	120078	109759	134404	128610	146271	1625783
Total Amount of Bituminous Coal disposed of by areas during each month for consumption in Alberta:													
						MINE RUN							
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	19	19
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	21	71	2	6	2	11	3	...	...	14	56	5	191
Group 2:													
Crowsnest	2237	1141	1387	1166	860	684	299	649	1387	2039	1829	1993	15671
Mtn. Park	10	...	...	...	...	...	12	...	...	...	...	...	22
Group 3:													
Coalspur	80	105	153	101	54	56	63	64	66	108	118	64	1032
Halcourt	25	...	...	...	...	...	...	...	...	...	8	...	33
Lethbridge	865	442	395	343	273	241	369	534	1104	1634	1691	974	8865
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	3238	1759	1937	1616	1189	992	746	1247	2557	3795	3702	3055	25833

LUMP COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	65	32	31	19	11	11	11	10	34	46	56	25	351
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	78	...	125	41	41	77	83	41	...	663	537	1686
Mtn. Park	95	71	22	67	12	55	102	65	53	65	38	37	682
Group 3:													
Coalspur	3107	1439	699	380	571	608	645	877	2409	2776	2603	2500	18614
Halcourt	25	12	8	...	...	...	...	...	...	...	...	...	45
Lethbridge	3532	1704	1798	1999	1338	878	845	1425	3192	4538	3865	3139	28253
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	337	285	147	46	21	20	22	70	189	86	497	343	2063
Pincher	11	...	...	...	11	...	...	27	...	7	...	...	56
Pr. Creek	168	95	66	6	46	69	...	...	...	39	...	417	906
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	100	104	35	11	8	21	3	...	61	41	53	119	556
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	7440	3820	2806	2653	2059	1703	1705	2557	5979	7598	7775	7117	53212

NUT COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	10	...	...	...	...	...	10	...	...	...	...	...	20
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	165	...	...	102	...	105	13	...	110	328	128	...	951
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	225	198	200	70	54	19	19	41	97	98	101	148	1270
Halcourt	8	6	3	...	...	...	...	...	...	...	...	...	17
Lethbridge	1469	993	917	935	658	823	858	912	2120	2750	2625	1660	16720
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	171	78	66	...	...	3	13	16	11	57	95	130	640
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	41	...	...	...	...	...	...	...	41
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	66	39	19	47	5	...	33	32	17	96	112	53	519
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	2114	1314	1205	1154	758	950	946	1001	2355	3329	3061	1991	20178

PREPARED STOKER

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	18	18	15	24	15	36	21	24	16	9	22	10	228
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	33	27	22	20	17	5	2	10	9	24	17	40	226
Group 2:													
Crowsnest	870	892	824	844	557	370	630	747	939	1089	880	973	9615
Mtn. Park	19	5	5	15	14	3	8	6	18	16	3	12	124
Group 3:													
Coalspur	703	504	290	253	108	9	147	225	504	698	460	340	4241
Halcourt	22	...	...	...	...	...	...	...	...	...	...	...	22
Lethbridge	742	370	406	284	129	274	160	344	875	769	599	797	5749
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	132	96	50	...	36	...	...	28	...	73	164	98	677
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	314	144	129	65	8	96	57	194	260	139	231	236	1873
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	2853	2056	1741	1505	884	793	1025	1578	2621	2817	2376	2506	22755

NUT-SLACK

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	...	...	...	...	...
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	26	26
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	41	13	28	22	13	5	23	25	36	44	41	36	327
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	25	...	...	...	25
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	30	...	...	...	30
No.Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	41	13	28	22	13	5	23	25	91	44	41	62	408

SLACK

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	3180	2457	483	503	...	745	...	...	...	252	...	2386	10006
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	13	...	...	...	13
Halcourt	1	...	10	...	...	...	...	...	...	...	...	...	11
Lethbridge	2600	965	951	795	877	1286	1487	1257	3182	5093	5772	2984	27249
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	160	157	111	45	12	11	15	6	84	110	120	167	998
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	35	35
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	5941	3579	1555	1343	889	2042	1502	1263	3279	5455	5892	5572	38312

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in ALBERTA:
MINE RUN

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	1522	612	105	150	...	...	...	...	312	1048	1504	1340	6593
Big Valley	...	...	...	...	...	...	...	...	...	...	...	36	36
Brooks	1690	1093	552	204	...	...	...	376	1275	3363	3103	1937	13593
Carbon	862	278	221	...	...	...	31	50	524	1112	1242	619	4939
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	565	606	294	101	18	19	133	757	983	1754	543	1105	6878
Edmonton	4798	2120	1606	259	123	35	41	184	638	2352	4191	2649	18996
Gleichen	1016	508	333	246	153	103	201	804	990	1138	1310	1032	7834
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	111	50	23	10	...	...	...	...	9	86	194	102	585
Taber	35	52	...	10	...	...	...	...	2	70	88	41	298
Wetaskiwin	103	50	32	...	...	...	...	...	...	...	...	...	185
Whitecourt	162	43	20	...	...	...	...	...	...	...	151	189	565
No Area	...	...	...	...	...	...	...	...	...	...	...	24	24
Group 5:													
Camrose	24	40	19	...	...	...	...	...	...	...	58	99	240
Castor	1157	808	361	174	47	34	27	62	548	1143	1186	820	6367
Pakowki	17	7	...	7	...	...	...	...	8	...	6	...	45
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	12	...	...	22	...	...	...	...	32	77	286	39	468
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	...	42	43	82	18	18	16	22	122	285	612	629	1889
Westlock	574	209	225	100	14	3	2	6	106	350	482	321	2392
Total:	12648	6518	3834	1365	373	212	451	2261	5549	12778	14956	10982	71927

LUMP COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	3096	1443	690	197	71	33	66	156	760	2441	3360	2034	14347
Big Valley	70	50	47	16	10	3	21	37	71	129	116	130	700
Brooks	436	156	101	41	...	...	...	79	207	290	395	44	1749
Carbon	2681	1528	1254	659	236	180	220	547	918	3416	3528	2317	17484
Champion	448	248	224	155	72	56	100	213	374	668	706	486	3750
Drumheller	14377	5083	3721	4548	4234	4813	2387	4879	8086	9561	11462	9644	82795
Edmonton	11326	4485	2944	1095	1300	1282	909	957	3827	9590	13505	9692	60912
Gleichen	328	238	106	25	18	...	...	...	...	31	79	146	971
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	4707	2653	2154	761	334	529	409	510	1576	3229	4482	3664	25008
Taber	1110	710	626	170	90	85	115	105	723	2064	1931	1281	9010
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	40	40
Group 5:													
Camrose	2016	920	639	254	69	36	6	95	1126	2308	3264	1682	12415
Castor	12716	4879	3377	1107	626	171	275	824	5307	13413	16319	11303	70317
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	297	195	67	12	...	...	138	370	413	1107	989	375	3963
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	1699	805	530	176	59	62	47	15	352	2845	4167	1913	12670
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	7064	3047	1814	400	161	9	19	7	1700	6675	10282	4244	35422
Westlock	1013	486	198	22	...	...	...	...	36	454	1560	1102	4871
Total:	63384	26926	18492	9638	7280	7259	4712	8794	25476	58221	76145	50097	356424

NUT COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	1197	816	842	248	112	59	71	129	715	1703	2513	1863	10268
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	131	172	90	50	...	...	...	6	109	397	357	294	1606
Carbon	357	210	180	66	78	76	63	68	71	172	212	277	1830
Champion	160	83	90	79	45	19	54	130	149	284	324	191	1608
Drumheller	2058	2045	1053	1729	1175	1676	903	894	1943	1864	2297	1646	19283
Edmonton	7495	4550	4315	1478	630	456	392	460	2268	5297	9480	6383	43204
Gleichen	...	...	...	...	...	...	...	...	...	7	39	40	86
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	2844	1862	1593	359	168	253	165	196	657	2172	2866	2513	15648
Taber	1187	416	378	35	30	25	35	25	664	1070	1091	879	5835
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	2158	1249	1121	432	214	168	177	351	905	1897	2123	1599	12394
Castor	2401	1418	1085	719	322	138	205	449	1011	2665	2693	1647	14753
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	22	48	120	114	48	352
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	1109	905	1218	784	283	168	174	218	362	1750	1415	926	9312
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	335	171	131	46	11	2	25	12	68	300	653	603	2357
Westlock	382	195	102	23	2	...	...	...	27	222	567	532	2052
Total:	21814	14092	12198	6048	3070	3040	2264	2960	8997	19920	26744	19441	140588

PREPARED STOKER

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	848	646	557	209	125	104	127	118	356	2373	3802	3083	12348
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	74	52	47	...	...	...	...	37	67	14	13	24	328
Carbon	1354	1105	757	631	177	141	132	191	507	1048	1398	1177	8618
Champion	55	35	2	6	6	2	1	1	14	26	25	10	183
Drumheller	2033	2969	1010	776	478	297	205	462	1213	1539	1528	1864	14374
Edmonton	4745	2404	2118	858	578	276	401	281	1308	2408	3135	3247	21759
Gleichen	25	37	8	...	1	...	...	...	...	...	...	...	71
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	2897	1355	1364	538	334	402	195	415	2109	1693	1846	2064	15212
Taber	171	83	104	...	...	...	...	...	136	356	363	304	1517
Wetaskiwin	20	10	5	...	...	...	...	...	...	...	...	...	35
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	669	462	306	145	79	53	65	87	266	467	607	540	3746
Castor	3062	1694	1920	1113	280	103	81	268	1469	1801	2106	2300	16197
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	579	544	540	221	205	58	86	72	91	425	685	442	3948
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	438	247	223	126	60	...	26	19	219	309	359	268	2294
Westlock	98	75	53	1	...	...	...	...	...	8	128	93	456
Total:	17068	11718	9014	4624	2323	1436	1319	1951	7755	12467	15995	15416	101086

NUT-SLACK

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	139	67	21	...	...	...	...	...	...	52	142	57	478
Big Valley	8	11	8	...	...	...	...	6	6	10	8	8	65
Brooks	703	1082	2022	734	...	...	...	121	89	217	186	118	5272
Carbon	7	10	8	9	20	8	22	...	10	75	35	16	220
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	1368	1519	919	781	529	224	444	170	619	2342	1167	1176	11258
Edmonton	1323	425	393	155	130	34	111	99	266	1040	1302	1008	6286
Gleichen	...	...	...	3	6	...	...	...	...	...	...	95	104
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	176	94	62	13	14	232	17	5	114	196	351	271	1545
Taber	104	6	...	...	...	...	...	...	...	...	...	...	110
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	487	294	196	136	92	49	50	75	182	425	466	377	2829
Castor	...	...	...	...	...	...	...	...	...	...	...	...	...
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	...	...	...	...	...	...	...	...	...	...
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	31	23	9	...	...	...	...	...	...	74	220	20	377
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	4346	3531	3638	1831	791	547	644	476	1286	4431	3877	3146	28544

500-2

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	401	...	...	...	...	...	...	...	...	...	401
Brooks	1468	209	3	...	...	...	...	301	406	483	208	167	3245
Carbon	1123	716	454	149	115	132	73	90	273	625	1085	989	5824
Champion	23	12	6	6	4	4	4	7	11	23	21	17	138
Drumheller	8725	3944	3596	3206	3827	4837	2899	4982	7166	6409	7788	7199	64578
Edmonton	9876	9279	8493	2665	3683	4515	3761	4083	4663	5438	8368	10911	75735
Gleichen	70	45	23	17	6	...	...	...	...	20	56	...	237
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	2095	2283	2764	1810	1882	1619	1393	975	1356	1572	1157	1771	20677
Taber	559	88	190	...	...	...	...	...	889	1541	1695	376	5338
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose'	68	70	86	415	980	421	74	1	51	122	293	350	2931
Castor	1463	418	109	310	702	...	327	736	563	408	599	500	6135
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	...	...	...	...	...	...	...	...	...	...
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	100	163	9	50	...	...	...	...	36	12	36	250	656
Westlock	78	47	8	...	...	...	...	3	3	11	73	97	320
Total:	25648	17274	16142	8628	11199	11528	8531	11178	15417	16664	21379	22627	186215

Total amount of Bituminous Coal disposed of by areas during each month for consumption in SASKATCHEWAN:
MINE RUN

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	260	182	47	40	...	...	...	45	90	89	90	...	843
Mtn. Park	285	94	...	...	...	...	...	...	...	...	...	...	379
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	545	276	47	40	...	...	...	45	90	89	90	...	1222

LUMP COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	42	40	45	...	127
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	299	442	213	40	130	43	204	299	484	801	306	360	3621
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	42	42
Group 3:													
Coalspur	974	162	159	80	497	617	592	288	244	2296	2869	2301	11079
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	3084	823	586	579	517	1778	1945	1149	3190	5624	6461	2970	28706
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	96	...	...	...	...	25	75	161	83	319	103	92	954
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	4453	1427	958	699	1144	2463	2816	1897	4043	9080	9784	5765	44529

NUT COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	193	...	...	182	89	...	90	...	90	75	188	907
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	74	...	...	41	...	...	...	...	...	...	39	...	154
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	1145	493	215	186	187	517	514	329	1188	1614	1953	917	9258
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	31	...	...	...	...	24	31	29	...	101	...	10	226
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	1250	686	215	227	369	630	545	448	1188	1805	2067	1115	10545

PREPARED STOKER

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	145	82	168	43	125	...	84	...	294	270	87	127	1425
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	273	121	...	150	131	45	...	43	...	...	170	50	983
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	286	218	646	136	83	...	156	40	208	594	695	131	3193
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	128	...	...	...	80	82	78	39	133	293	126	173	1132
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	69	...	...	...	...	...	...	69
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	242	154	84	22	...	23	97	124	192	298	109	191	1536
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	1074	575	898	351	419	219	415	246	827	1455	1187	672	8338

500-2

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	180	...	...	45	...	...	...	151	40	...	45	461
Mtn. Park	48	...	42	...	...	...	...	...	...	...	...	...	90
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	40	...	38	41	...	...	...	119
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	27	31	21	...	11	...	43	24	30	33	26	...	246
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	75	211	63	...	56	40	43	62	222	73	26	45	916

SLACK COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	...	...	...	...	...
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	137	217	234	165	89	436	172	192	177	...	...	...	1819
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	228	101	67	23	...	44	53	147	169	299	184	122	1437
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	365	318	301	188	89	480	225	339	346	299	184	122	3256

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in SASKATCHEWAN:
MINE RUN

500 2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	...	...	...	...	...	...	...	...	...	...	...	...	...
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	43	...	...	...	...	...	1968	1456	3010	3343	...	3898	13718
Edmonton	...	...	...	...	...	...	...	...	...	...	...	...	...
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	...	...	...	...	...	...	...	...	...	...	...	...	...
Taber	...	...	...	...	...	...	...	...	...	...	...	...	...
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...
Castor	...	...	...	...	...	...	...	...	...	...	...	...	...
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	...	...	...	...	...	...	...	...	...	...
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	42	44	81	...	...	...	...	...	...	...	...	...	167
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	85	44	81	...	...	...	1968	1456	3010	3343	...	3898	13885

LUMP COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	381	175	...	...	...	...	...	81	426	1354	2977	596	5990
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	43918	18249	13426	13921	17237	19651	17610	21129	32253	44463	48218	47374	337449
Edmonton	298	38	...	...	...	...	...	...	124	543	678	294	1975
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	545	208	216	88	...	87	140	121	570	302	541	795	3613
Taber	172	43	42	...	...	...	...	...	451	2091	3035	876	6710
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	39	...	...	...	...	...	...	90	90	35	82	44	380
Castor	11505	3233	3866	1161	501	86	213	1631	5536	13070	13937	9807	64546
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	37	...	...	37
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	2813	1658	1085	550	348	261	143	146	361	1518	1691	2151	12725
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	2719	521	963	629	120	...	44	...	420	1213	1620	1006	9255
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	62390	24125	19598	16349	18206	20085	18150	23198	40231	64626	72779	62943	442680

NUT COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	121	...	...	81	...	...	...	84	191	853	1467	307	3104
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	5748	3213	2198	2314	2866	2313	1950	1367	3915	6539	6492	5501	44416
Edmonton	...	...	...	...	...	...	...	...	...	43	...	...	43
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	10	22	5	...	...	...	...	...	...	20	94	41	192
Taber	...	...	...	...	...	...	...	...	...	40	105	...	145
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	...	...	...	...	...	...	42	...	...	...	43	...	85
Castor	3674	1755	1416	401	241	117	159	328	3174	3914	3899	4874	23952
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	1495	1020	925	396	172	156	423	409	998	1669	1507	1707	10877
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	1735	487	834	623	110	...	44	...	234	898	1105	1003	7073
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	12783	6497	5378	3815	3389	2586	2618	2188	8512	13976	14712	13433	89887

500-2

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	88	46	41	...	...	...	...	81	177	198	70	103	804
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	5871	2328	2107	1988	1176	1132	1518	1494	4444	4230	3818	3547	33653
Edmonton	138	...	...	...	...	...	...	...	...	...	78	125	341
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	623	293	322	122	81	81	...	40	246	344	256	399	2807
Taber	...	...	...	...	...	...	...	...	40	10	...	...	50
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	187	30	41	...	...	...	83	...	88	217	126	...	772
Castor	4870	2315	2818	2478	4091	475	941	1233	4226	3772	5281	3982	36482
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	4727	2600	1681	334	195	204	183	219	1145	3681	3054	3006	21029
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	2942	454	1180	841	328	...	48	...	413	663	911	1005	8785
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	19446	8066	8190	5763	5871	1892	2773	3067	10779	13115	13594	12167	104723

NUT-SLACK

500 2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	1941	...	1250	678	...	...	...	...	38	121	196	37	4261
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	3424	1420	1135	569	672	1184	693	1493	1405	2481	2917	2903	20296
Edmonton	...	42	...	...	...	...	...	...	...	...	...	...	42
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	...	...	...	...	...	...	...	...	...	...	...	...	...
Taber	...	...	...	...	...	...	...	...	...	...	...	...	...
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	80	52	...	...	...	...	...	...	...	102	...	...	234
Castor	40	...	...	37	...	...	...	...	42	199	41	211	570
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	...	...	...	...	...	...	...	...	...	...	...	...	...
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	108	34	133	...	...	...	...	...	...	148	95	47	565
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	5593	1548	2518	1284	672	1184	693	1493	1485	3051	3249	3198	25968

SLACK COAL

500·2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	1428	820	455	366	...	...	...	...	211	1160	1541	846	6827
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	12663	7334	3723	4452	6093	7179	7064	8179	8778	10501	9565	10034	95565
Edmonton	...	...	...	...	...	...	...	...	...	...	...	...	...
Gleichen	...	...	...	...	...	...	...	...	...	...	...	...	...
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	4525	2093	6700	9652	5089	4898	7083	1890	3178	3377	2489	3061	54035
Taber	...	213	61	...	...	...	...	...	63	...	73	480	890
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Camrose	1450	1464	1346	2050	1780	409	...	...	...	...	284	768	9551
Castor	13293	7662	8985	8322	6742	6899	8873	5666	9792	11068	10998	10903	109203
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	2305	1412	1605	488	338	300	240	293	858	2417	1082	1236	12574
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	...	...	...	...	...	...	...	...	...	...	...	...	...
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	35664	20998	22875	25330	20042	19685	23260	16028	22880	28523	26032	27328	288645

500:2

Total amount of Bituminous Coal disposed of by areas during each month for consumption in BRITISH COLUMBIA:
MINE RUN

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	130	87	...	40	41	...	42	...	81	311	304	124	1160
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	...	...	...	45	...	...	...	...	...	...	...	45
Mtn. Park	...	...	...	...	...	49	...	...	...	...	...	...	49
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	130	87	...	40	86	49	42	...	81	311	304	124	1254

LUMP COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	93	...	...	...	...	...	...	...	...	...	...	...	93
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	623	702	275	344	430	81	1069	1257	1799	4145	1477	1264	13466
Mtn. Park	...	...	...	...	...	42	...	...	...	...	...	...	42
Group 3:													
Coalspur	9300	5825	4471	4106	5681	1174	9931	6415	8175	11985	11318	12156	90537
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	990	326	481	724	422	946	1159	1208	2482	3124	2975	1047	15884
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	60	...	15	23	...	...	...	...	18	77	64	58	315
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	88	...	...	...	...	...	...	...	...	...	...	88
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	58	64	50	...	...	172
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	11066	6941	5242	5197	6533	2243	12159	8938	12538	19381	15834	14525	120597

NUT COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	126	62	42	42	87	88	...	44	88	103	121	63	866
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	686	465	135	92	45	138	253	240	507	1545	974	838	5918
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	1883	1378	1451	1132	685	96	1635	998	1471	3887	3874	3685	22175
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	364	68	232	126	163	298	464	108	478	891	886	340	4418
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	61	44	...	...	...	...	...	...	...	...	...	...	105
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	47	...	...	...	...	...	...	...	47
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	25	...	...	25
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	3120	2017	1860	1392	1027	620	2352	1390	2544	6451	5855	4926	33554

PREPARED STOKER

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	670	207	318	169	168	432	630	385	414	1188	672	610	5863
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	1921	1279	861	1472	877	1107	849	1077	2212	2509	1327	1128	16619
Mtn. Park	972	1316	899	668	339	354	334	299	1358	1536	1405	1883	11363
Group 3:													
Coalspur	8891	7509	6170	5321	5046	846	8376	4791	7713	8245	9482	11728	84118
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	412	130	131	181	151	223	277	213	283	439	191	344	2975
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	78	42	38	50	...	...	...	38	55	80	43	44	468
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	12944	10483	8417	7861	6581	2962	10466	6803	12035	13997	13120	15737	121406

NUT-SLACK

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	...	244	90	...	334
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	3956	4549	3267	2344	1356	1645	1070	1298	1391	4153	4443	4865	34337
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	...	...
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	164	258	148	...	...	...	...	...	42	123	233	185	1153
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	4120	4807	3415	2344	1356	1645	1070	1298	1433	4520	4766	5050	35824

SLACK COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	23	23
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	17839	14219	13056	8608	5665	4981	4936	7157	9543	9226	9940	11570	116740
Mtn. Park	6673	8189	5775	6154	7439	5270	4930	4338	5299	12203	7296	7570	81136
Group 3:													
Coalspur	1824	2791	4003	3481	2933	3517	1907	3606	4019	2456	3434	3310	37281
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	45	...	...	...	...	...	...	...	...	...	...	45
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	26336	25244	22834	18243	16037	13768	11773	15101	18861	23885	20670	22473	235225

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in BRITISH COLUMBIA:
MINE RUN

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	...	43	...	...	20	...	307	461	1076	1104	...	920	3931
Total:	...	43	...	...	20	...	307	461	1076	1104	...	920	3931
						LUMP COAL							
Group 4:													
Brooks	175	62	81	...	...	...	...	44	286	492	526	90	1756
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	7661	3926	3456	4627	4536	7498	3558	6696	8092	10120	10592	8565	79327
Edmonton	...	...	...	...	...	...	...	...	...	...	22	...	22
Pembina	2102	1143	964	369	241	69	159	336	1003	1563	1316	2029	11294
Taber	422	284	44	...	...	...	...	...	1755	1946	1377	982	6810
Group 5:													
Camrose	208	127	125	41	43	...	...	121	298	408	475	403	2249
Castor	4112	1432	1818	831	263	329	378	1086	2324	3878	3403	4229	24083
Redcliff	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	77	84	...	...	...	...	...	...	77	118	220	258	834
Tofield	336	45	91	...	...	...	...	...	184	142	126	158	1082
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	15093	7103	6579	5868	5083	7896	4095	8283	14019	18667	18057	16714	127457

NUT COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	...	17	...	...	...	...	...	...	133	263	263	109	785
Carbon	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	1360	629	520	717	931	1233	1149	880	1801	2423	2366	1856	15865
Edmonton	749	211	...	...	...	...	...	...	40	...	21	...	1021
Pembina	546	361	502	308	21	169	73	164	531	654	489	568	4386
Taber	242	41	42	...	...	...	...	...	127	122	47	...	621
Group 5:													
Camrose	125	134	44	44	44	...	43	44	178	367	83	369	1475
Castor	331	160	116	166	128	117	41	264	591	575	647	450	3586
Sheerness	...	...	...	...	...	...	...	...	40	...	...	...	40
Tofield	41	...	...	...	...	...	...	...	76	70	...	...	187
Total:	3394	1553	1224	1235	1124	1519	1306	1352	3517	4474	3916	3352	27966
					PREPARED STOKER								
Group 4:													
Brooks	167	...	47	...	...	...	...	...	77	42	185	37	555
Drumheller	2358	1034	801	1159	1117	1223	933	893	1377	2548	2156	2148	17747
Edmonton	...	...	...	...	...	40	...	...	...	...	...	...	40
Pembina	11542	10590	11412	10327	4977	5454	2943	1342	8108	7596	9018	8023	91332
Taber	152	100	49	...	...	...	...	...	306	482	162	179	1430
Group 5:													
Camrose	79	83	83	85	84	46	41	81	118	141	123	248	1212
Castor	1085	659	1011	433	157	167	249	377	1274	1571	1090	1115	9188
Sheerness	43	43	...	42	80	86	...	183	393	507	170	40	1587
Tofield	25	...	...	90	...	...	...	...	47	20	8	94	284
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	15451	12509	13403	12136	6415	7016	4166	2876	11700	12907	12912	11884	123375

500·2

NUT-SLACK

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	...	...	...	...	...	...	...	...	77	...	153	132	362
Drumheller	622	319	282	301	232	316	228	440	589	473	582	743	5127
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	100	58	103	261
Castor	67	...	...	...	...	...	...	38	166	237	392	405	1305
Tofield	43	...	...	...	...	...	...	...	144	...	...	11	198
Total:	732	319	282	301	232	316	228	478	976	810	1185	1394	7253
					SLACK COAL								
Group 4:													
Brooks	...	...	...	...	...	...	...	...	...	237	479	570	1286
Drumheller	201	44	...	19	...	42	...	...	43	68	85	43	545
Pembina	1319	1450	1135	1604	796	1207	1017	1302	2241	2486	2192	2354	19103
Group 5:													
Camrose	...	...	...	...	...	...	...	...	75	...	...	...	75
Castor	...	...	...	...	...	48	...	...	...	279	...	...	327
Sheerness	...	...	...	...	...	...	...	207	...	...	...	...	207
Total:	1520	1494	1135	1623	796	1297	1017	1509	2359	3070	2756	2967	21543

Total amount of Bituminous Coal disposed of by areas during each month for consumption in MANITOBA:
MINE RUN

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	89	...	...	...	...	...	...	...	130	68	...	...	287
Group 2:													
Crowsnest	45	...	...	...	...	...	...	...	...	114	...	...	159
Mtn. Park	140	46	102	453	992	1082	1001	...	...	186	111	...	4113
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	274	46	102	453	992	1082	1001	...	130	368	111	...	4559
						LUMP COAL							
Group 1:													
Cascade	44	...	...	...	...	...	...	...	39	...	147	20	250
Group 2:													
Crowsnest	703	1021	484	134	122	478	165	351	503	706	247	297	5211
Mtn. Park	...	74	73	253	565	665	380	479	706	451	319	541	4506
Group 3:													
Coalspur	2337	728	464	844	1638	530	1564	1146	2546	2859	2968	3757	21381
Lethbridge	651	255	84	129	42	381	302	297	779	1108	1657	650	6335
Pekisko	41	...	39	...	...	...	...	...	...	...	...	...	80
Saunders	401	75	78	27	...	71	116	61	487	693	131	252	2392
Total:	4177	2153	1222	1387	2367	2125	2527	2334	5060	5817	5469	5517	40155

NUT COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	46	131	298	...	475
Group 2:													
Crowsnest	706	45	...	...	...	...	45	232	135	1204	745	767	3879
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	37	37	78	...	...	...	...	...	20	59	...	43	274
Lethbridge	43	...	42	...	...	39	...	43	83	169	165	64	648
Saunders	...	...	...	...	...	...	...	25	31	...	...	...	56
Total:	786	82	120	...	...	39	45	300	315	1563	1208	874	5332

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	123	40	43	...	127	98	...	...	195	82	337	412	1457
Group 2:													
Crowsnest	1095	1410	1114	787	179	725	1447	1628	2356	3122	1644	2036	17543
Mtn. Park	450	334	...	...	...	...	957	140	259	143	140	607	3030
Group 3:													
Coalspur	972	88	...	41	...	...	41	90	204	119	135	120	1810
Lethbridge	...	...	...	...	...	...	...	...	...	...	...	43	43
Saunders	...	...	...	...	...	...	...	30	...	106	...	...	136
Total:	2640	1872	1157	828	306	823	2445	1888	3014	3572	2256	3218	24019

NUT-SLACK

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	517	...	...	...	...	...	...	...	256	...	207	...	980
Mtn. Park	1357	460	...	...	...	...	...	...	537	974	994	1911	6233
Group 3:													
Saunders	34	32	...	...	...	...	...	25	109	34	...	...	234
Total:	1908	492	...	...	...	...	...	25	902	1008	1201	1911	7447

SLACK COAL

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	...	...	...	...	...
Mtn. Park	...	...	...	...	...	...	...	...	...	...	74	...	74
Group 3:													
Coalspur	1614	...	...	...	...	...	...	...	...	...	...	...	1614
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	1614	...	...	...	...	...	...	...	...	...	74	...	1688

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in **MANITOBA:**

MINE RUN

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	...	...	...	...	...	...	296	860	1710	1566	10	1118	5560
Group 5:													
Castor	98	...	...	...	...	...	...	...	90	47	47	43	325
Total:	98	...	...	...	...	...	296	860	1800	1613	57	1161	5885
					LUMP COAL								
Group 4:													
Brooks	544	43	82	...	...	...	...	86	328	897	1517	753	4250
Carbon	376	212	119	...	...	...	...	...	...	40	159	342	1248
Drumheller	14705	8660	5028	2983	4390	5806	5386	6174	10879	11949	14219	14463	104642
Edmonton	86	85	...	...	...	...	...	...	121	458	598	419	1767
Pembina	477	130	85	22	44	...	...	...	66	304	81	123	1332
Taber	298	126	42	...	...	...	...	...	638	922	987	657	3670
Group 5:													
Camrose	82	83	...	...	...	...	...	...	76	154	84	84	563
Castor	4049	1935	1185	411	...	...	44	472	3617	4601	4485	5314	26113
Redcliff	...	...	...	...	...	...	...	...	...	37	...	...	37
Sheerness	565	162	123	...	...	...	...	...	13	528	1554	1652	4597
Tofield	1608	530	625	217	...	...	...	...	1000	1160	716	978	6834
Total:	22790	11966	7289	3633	4434	5806	5430	6732	16738	21050	24400	24785	155053

NUT COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	114	...	...	...	...	...	...	...	79	266	525	73	1057
Carbon	44	...	...	...	...	...	...	...	...	...	...	...	44
Drumheller	924	705	299	180	161	220	224	805	812	1080	1284	1103	7797
Edmonton	45	...	...	...	...	...	...	...	...	80	113	40	278
Pembina	141	120	...	23	...	...	...	...	41	100	89	41	555
Taber	126	...	...	...	...	...	...	...	6	42	52	...	226
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...
Castor	343	23	159	...	37	56	...	57	196	238	172	80	1361
Sheerness	41	40	44	40	39	...	...	40	120	123	133	123	743
Tofield	108	23	134	86	...	...	...	...	205	130	243	407	1336
Total:	1886	911	636	329	237	276	224	902	1459	2059	2611	1867	13397
PREPARED STOKER													
Group 4:													
Brooks	...	...	...	...	...	...	...	...	38	...	40	...	78
Drumheller	384	204	70	152	117	122	225	252	621	799	341	265	3552
Edmonton	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	327	258	82	39	...	41	...	124	266	474	273	173	2057
Taber	...	...	...	...	...	...	...	...	40	28	...	...	68
Group 5:													
Camrose	...	...	...	...	...	...	...	...	...	51	43	...	94
Castor	864	694	393	150	...	98	118	175	1455	1910	1319	1767	8943
Sheerness	41	91	246	86	...	40	...	42	251	368	158	392	1715
Tofield	46	53	47	...	...	...	...	...	92	...	10	65	313
Total:	1662	1300	838	427	117	301	343	593	2763	3630	2184	2662	16820

NUT-SLACK

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	...	...	...	...	...	...	...	35	...	39	...	...	74
Drumheller	...	...	...	...	43	44	...	...	...	...	...	16	103
Edmonton	...	...	...	...	...	...	...	...	...	29	59	41	129
Group 5:													
Castor	...	...	27	...	...	44	...	...	...	...	26	...	97
Total:	...	...	27	...	43	88	...	35	...	68	85	57	403

Total amount of Bituminous Coal disposed of by areas during each month for consumption in ONTARIO:
LUMP COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	72	...	...	...	...	72	61	50	713	957	1247	1187	4359
Group 2:													
Crowsnest	44	104	...	...	...	...	...	...	43	239	44	44	518
Group 3:													
Coalspur	2201	2298	767	245	648	...	2390	1944	2932	3197	3143	2936	22701
Lethbridge	173	169	42	41	85	...	169	168	380	249	311	430	2217
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	488	267	77	15	...	73	114	357	419	494	271	314	2889
Total:	2978	2838	886	301	733	145	2734	2519	4487	5136	5016	4911	32684
					NUT COAL								
Group 1:													
Cascade	60	...	56	...	...	...	...	...	...	50	...	...	166
Group 2:													
Crowsnest	...	444	...	...	...	...	...	...	298	1048	110	...	1900
Group 3:													
Coalspur	2100	746	494	38	71	...	161	121	207	163	404	197	4702
Lethbridge	152	...	44	...	82	...	40	...	194	288	295	86	1181
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	30	37	...	12	...	...	...	29	77	...	25	...	210
Total:	2342	1227	594	50	153	...	201	150	776	1549	834	283	8159

PREPARED STOKER

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	56	...	...	...	...	...	...	56
Group 2:													
Crowsnest	...	294	...	...	71	...	...	...	75	...	...	...	440
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	20	...	20
Total:	...	294	...	...	71	56	...	...	75	...	20	...	516
NUT-SLACK													
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	...	...	...	...	...	...	...	...	...	...	...	...	...
SLACK COAL													
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	...	...	...	...	...	...	...	...	...	...	...	...	...

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in ONTARIO:

MINE RUN

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Drumheller	110	...	...	...	...	...	...	120	97	157	...	119	603
Total:	110	...	...	...	...	...	...	120	97	157	...	119	603
					LUMP COAL								
Group 4:													
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	171	...	...	...	...	...	...	77	181	204	175	338	1146
Drumheller	2316	1408	438	162	240	605	760	1313	2035	3802	2374	1558	17011
Edmonton	95	43	...	...	43	...	...	...	183	365	140	...	869
Pembina	393	262	...	...	...	...	...	...	173	236	215	...	1279
Taber	...	45	...	...	...	...	...	...	77	212	126	41	501
Group 5:													
Camrose	...	...	...	...	...	...	...	...	116	38	40	43	237
Castor	293	44	...	50	42	...	...	...	179	127	171	165	1071
Sheerness	880	158	130	...	...	...	...	112	79	896	1143	35	3433
Tofield	220	88	91	...	...	...	...	...	249	258	179	170	1255
Total:	4368	2048	659	212	325	605	760	1502	3272	6138	4563	2350	26802

NUT COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	...	...	...	...	...	...	...	...	...	...	36	...	36
Drumheller	449	196	238	38	74	124	200	244	543	239	274	413	3032
Edmonton	...	...	...	...	...	...	...	...	...	...	89	...	89
Pembina	41	...	39	...	...	...	...	...	...	41	...	71	192
Taber	79	43	...	...	...	...	...	...	...	...	...	...	122
Group 5:													
Camrose	...	...	...	...	...	...	...	...	110	118	42	...	270
Castor	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	...	...	...	...	...	...	...	...	47	...	...	...	47
Total:	569	239	277	38	74	124	200	244	700	398	441	484	3788
PREPARED STOKER													
Group 4:													
Drumheller	42	...	...	...	42	...	79	...	42	39	40	40	324
Edmonton	...	...	...	...	...	...	...	...	...	...	48	...	48
Group 5:													
Tofield	38	...	...	...	...	...	...	...	...	...	...	...	38
Total:	80	...	...	...	42	...	79	...	42	39	88	40	410
NUT-SLACK													
Group 4:													
Drumheller	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Tofield	45	...	...	...	...	...	...	...	27	...	43	40	155
Total:	45	...	...	...	...	...	...	...	27	...	43	40	155

Total amount of Bituminous Coal disposed of by areas during each month for consumption in UNITED STATES:

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
						MINE RUN							
Group 2:													
Crowsnest	1118	1269	460	457	...	150	...	...	151	460	543	706	5314
Total:	1118	1269	460	457	...	150	...	...	151	460	543	706	5314
						LUMP COAL							
Group 2:													
Crowsnest	361	44	86	...	43	...	...	...	219	147	...	316	1216
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	...	...	44	...	...	...	...	100	...	...	...	...	144
Total:	361	44	130	...	43	...	...	100	219	147	...	316	1360
						NUT COAL							
Group 2:													
Crowsnest	...	261	78	...	351	79	125	672	983	883	376	352	4160
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	...	261	78	...	351	79	125	672	983	883	376	352	4160

500-2

PREPARED STOKER

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	244	73	...	...	...	...	...	317
Group 2:													
Crowsnest	3124	3012	2844	2261	2122	2188	3519	2569	3129	3264	2288	4184	34504
Group 3:													
Coalspur	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	3124	3012	2844	2261	2122	2432	3592	2569	3129	3264	2288	4184	34821
					NUT-SLACK								
Group 2:													
Crowsnest	75	...	45	...	...	76	...	...	...	60	148	226	630
Total:	75	...	45	...	...	76	...	...	...	60	148	226	630
					SLACK COAL								
Group 2:													
Crowsnest	76	...	223	148	234	...	...	...	...	62	...	...	743
Total:	76	...	223	148	234	...	...	...	...	62	...	...	743

Total amount of Sub-Bituminous Coal disposed of by areas during each month for consumption in UNITED STATES:

LUMP COAL

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 5: Castor	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	...	...	...	...	...	...	...	...	...	...	...	...	...
PREPARED STOKER													
Group 5: Camrose	44	...	...	...	...	...	...	47	...	...	...	...	91
Total:	44	...	...	...	...	...	...	47	...	...	...	...	91

Amount of Bituminous Coal used under Colliery Boilers by areas during each month:

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	1307	1022	1449	1290	1160	1036	1111	526	866	745	710	770	11992
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	847	758	816	803	603	840	706	596	662	695	712	717	8755
Group 2:													
Crowsnest	1533	1308	1457	1246	1100	1065	1175	1003	1185	1411	1736	2284	16503
Mtn. Park	1750	1560	1452	1633	1500	1617	1398	1126	704	1179	1545	1761	17225
Group 3:													
Coalspur	3138	3525	3226	3367	2966	400	6069	3045	3472	3495	2565	3670	38938
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	368	227	180	88	79	85	76	58	134	182	281	400	2158
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	...	...	...	...	...	...	...	...	...	...	...	...	...
Pincher	...	...	...	...	...	...	...	...	...	...	...	...	...
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	...	...
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	170	89	127	162	44	101	115	194	262	256	234	185	1939
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	9113	8489	8707	8589	7452	5144	10650	6548	7285	7963	7783	9787	97510

Amount of Sub-Bituminous Coal used under Colliery Boilers by areas during each month:

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Carbon	5	3	...	...	...	...	...	...	...	...	...	...	8
Drumheller	306	282	273	169	129	101	68	83	143	201	255	289	2299
Edmonton	35	30	26	12	7	5	5	5	12	25	32	35	229
Group 5:													
Tofield	50	50	50	...	...	...	...	...	...	...	...	...	150
Total:	396	365	349	181	136	106	73	88	155	226	287	324	2686

Amount of Bituminous Coal used by Colliery Railroads by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	35	97	79	67	76	84	84	48	108	98	98	98	972
Group 2:													
Crowsnest	15	15	15	15	15	15	15	15	15	15	15	15	180
Total:	50	112	94	82	91	99	99	63	123	113	113	113	1152

Amount of Bituminous Coal used making Briquettes:

500 2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	7733	4756	3302	2910	5399	5150	3239	3505	7927	9752	9228	6880	69781
Nordegg	24988	21279	12244	16039	20831	27128	25891	24901	21159	25271	19792	26550	266073
Group 2:													
Crowsnest	2932	3422	4740	3503	7420	6338	7242	8156	6785	17742	17016	20582	105878
Mtn. Park	14711	17525	9612	15546	19880	22881	19261	13940	9070	14312	15885	19093	191716
Total:	50364	46982	29898	37998	53530	61497	55633	50502	44941	67077	61921	73105	633448

Amount of Bituminous Coal used making Coke:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 2:													
Crowsnest	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	...	...	...	...	...	...	...	...	...	...	...	...	...

Amount of Sub-Bituminous Coal used making Fabricoal

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Big Valley	594	351	...	...	...	...	...	...	...	...	...	...	945
Total:	594	351	...	...	...	...	...	...	...	...	...	...	945

Amount of Bituminous Coal put to Stock by areas during each month:

500 2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	24406	21039	20632	20262	19467	16552	16903	14284	12540	12727	10946	9104	198862
Nordegg	370	...	730	85	400	50	300	15	1289	610	...	475	4324
Group 2:													
Crowsnest	24722	20859	27161	27661	30453	32906	35657	38563	39909	47044	49298	41816	416049
Group 3:													
Coalspur	343	995	3451	4336	965	1769	9709	6165	2994	4809	4947	4652	45135
Lethbridge	762	501	593	160	136	356	843	84	267	649	1978	1596	7925
Pr. Creek	...	...	...	93	...	...	...	...	...	...	...	...	93
Saunders	221	85	85	73	73	100	133	249	229	254	318	80	1900
Total:	50824	43479	52652	52670	51494	51733	63545	59360	57228	66093	67487	57723	674288

Amount of Sub-Bituminous Coal put to Stock by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Brooks	...	30	...	...	...	...	...	110	182	1627	2286	125	4360
Champion	...	...	...	...	...	...	...	...	...	...	...	...	...
Drumheller	792	292	84	252	1235	1845	2549	3303	2868	2757	5159	5176	26312
Edmonton	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	...	...	...	...	...	...	...	...	...	...	...	...	...
Taber	30	20	15	18	8	7	12	10	18	30	20	14	202
Group 5:													
Camrose	72	37	24	...	2	...	3	2	...	...	...	...	140
Castor	239	100	49	10	2	5	10	10	43	134	98	16	716
Redcliff	...	...	...	...	...	500	100	...	...	...	...	...	600
Sheerness	...	200	...	...	...	...	...	...	...	...	...	...	200
Westlock	...	...	...	...	...	...	...	...	...	...	130	100	230
Total:	1133	679	172	280	1247	2357	2674	3435	3111	4548	7693	5431	32760

Amount of Bituminous Coal put to Waste by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 2:													
Crowsnest	23735	17154	19432	12725	19895	19085	20404	15741	15286	22263	19265	23531	228516
Mtn. Park	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 3:													
Coalspur	2358	2078	1704	1232	1255	1251	2788	1916	1923	2806	2392	2273	23976
Lethbridge	17	11	15	8	4	2	9	10	16	23	26	15	156
Pincher	5	...	...	...	5	...	...	15	...	5	...	...	30
Pr. Creek	...	...	...	...	...	...	...	...	...	...	...	20	20
Total:	26115	19243	21151	13965	21159	20338	23201	17682	17225	25097	21683	25839	252698

Amount of Sub-Bituminous Coal put to Waste by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	372	281	174	78	37	23	31	48	200	534	766	269	2813
Big Valley	96	71	60	...	...	...	...	...	...	...	...	...	227
Brooks	100	...	...	...	...	...	...	...	...	...	...	...	100
Carbon	25	...	...	...	...	...	15	12	60	110	30	40	292
Drumheller	...	...	...	...	...	...	...	...	...	...	...	...	...
Edmonton	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	...	...	...	...	...	...	...	...	...	...	...	...	...
Taber	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 5:													
Castor	...	...	...	...	...	...	...	...	53	200	222	123	598
Sheerness	3	100	...	...	...	...	...	...	3	4	78	2	190
Westlock	...	5	5	5	2	...	...	...	7	30	40	35	129
Total:	596	457	239	83	39	23	46	60	323	878	1136	469	4349

Amount of Bituminous Coal lifted from Stock by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	22612	24399	21034	20627	20257	19462	16547	16898	14279	12535	12727	10946	212323
Nordegg	15	710	...	225	455	375	115	450	...	475	949	...	3769
Group 2:													
Crowsnest	22582	22398	20859	26464	27662	29173	31615	36049	41357	39067	48156	46533	391915
Group 3:													
Coalspur	3685	4537	3504	2117	1360	78	894	1192	4113	4100	2164	1897	29641
Lethbridge	648	762	501	593	160	136	346	848	91	267	649	1978	6979
Pr. Creek	...	...	...	...	46	47	...	...	...	...	...	...	93
Saunders	214	221	85	85	85	69	100	133	249	229	254	318	2042
Total:	49756	53027	45983	50111	50025	49340	49617	55570	60089	56673	64899	61672	646762

Amount of Sub-Bituminous Coal lifted from Stock by areas during each month:

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Big Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
Brooks	120	120	3782	50	...	...	...	...	...	19	6	1196	5293
Drumheller	912	2625	292	675	252	730	320	854	951	1276	632	513	10032
Edmonton	19	265	158	172	15	...	...	36	...	...	...	...	665
Pembina	40	...	...	...	...	...	...	...	...	...	59	21	120
Group 5:													
Redcliff	...	...	...	...	...	...	...	...	...	350	300	...	650
Sheerness	...	...	...	...	...	...	427	...	...	...	...	...	427
Westlock	43	...	57	...	...	...	...	...	...	...	...	...	100
Total:	1134	3010	4289	897	267	730	747	890	951	1645	997	1730	17287

Amount of Bituminous Coal lifted from Waste by areas during each month:

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	...	...	...	...	...	...	...	...	...	...	...	...	...
Group 2:													
Crowsnest	4169	5906	7259	5052	5336	7658	10202	6046	4648	5438	3769	4069	69552
Group 3:													
Lethbridge	...	...	...	7	10	...	...	...	...	...	...	...	17
Total:	4169	5906	7259	5059	5346	7658	10202	6046	4648	5438	3769	4069	69569
Amount of Sub-Bituminous Coal lifted from Waste by areas during each month:													
Group 4:													
Big Valley	...	...	401	...	...	...	...	...	...	...	...	...	401
Brooks	4788	1985	...	1859	...	...	...	...	...	...	...	...	8632
Total:	4788	1985	401	1859	...	...	...	...	...	...	...	...	9033

OUTPUT AND NUMBER OF MINES PRODUCING

	Under 1,000 tons		1,000 to 5,000 tons		5,000 to 10,000 tons		10,000 to 50,000 tons		50,000 to 100,000 tons		100,000 to 150,000 tons		150,000 to 200,000 tons		200,000 to 300,000 tons		Over 300,000 tons		Total	
Kind of Coal	No	Output	No	Output	No	Output	No	Output	No	Output	No	Output	No	Output	No	Output	No	Output	No	Output
Bituminous	9	2,014	2	2,922	2	12,895	2	31,669	4	298,340	1	106,796	..	....	6	1,435,151	4	1,627,712	30	3,517,499
Sub-Bituminous	42	14,443	31	81,093	15	114,840	13	303,881	7	547,885	5	694,052	1	155,265	2	488,465	..	....	116	2,399,924
Total	51	16,457	33	84,015	17	127,735	15	335,550	11	846,225	6	800,848	1	155,265	8	1,923,616	4	1,627,712	146	5,917,423

Number of men employed in the BITUMINOUS FIELD as at December 31st, 1953;

Areas	UNDERGROUND						ABOVE GROUND								STRIPPING			GRAND TOTALS		
	Salaried Employees	Foremen	Miners	Maintenance	Trans-portation	TOTAL UNDER-GROUND	Salaried Employees	Foremen	Maintenance	Trans-portation	Tipple and Shipping	Powerhouse	All other Employees	TOTAL ABOVE GROUND	Salaried Employees	Wage Earners	TOTAL STRIPPING	TOTAL SALARIED EMPLOYEES	TOTAL WAGE EARNERS	GRAND TOTAL
Group 1;																				
Cascade	21	1	79	35	39	175	15	1	24	12	26	31	30	139	...	...	...	36	278	314
Nordegg	5	10	99	68	80	262	16	5	1	7	27	20	24	100	...	12	12	21	353	374
Group 2;																				
Crowsnest	69	17	459	173	204	922	79	8	3	13	206	167	104	580	27	202	229	175	1556	1731
Mtn. Park	4	...	25	2	14	45	10	...	...	16	50	18	6	100	4	68	72	18	199	217
Group 3;																				
Coalspur	25	11	217	71	93	417	33	4	7	15	81	59	7	206	19	59	78	77	624	701
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lethbridge	3	24	197	25	96	345	32	...	...	10	47	33	21	143	...	1	1	35	454	489
Pekisko	...	1	6	...	1	8	...	...	...	1	2	...	...	3	...	...	...	...	11	11
Prairie Creek	1	3	7	...	1	12	...	...	...	...	...	...	...	...	...	...	...	1	11	12
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	5	...	38	1	7	51	4	...	...	2	7	3	...	16	...	...	...	9	58	67
Total;	133	67	1127	375	535	2237	189	18	35	76	446	331	192	1287	50	342	392	372	3544	3916

Number of men employed in the SUB-BITUMINOUS FIELD as at December 31st, 1953:

Group 4:																				
Ardley	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	22	28	6	22	28
Big Valley	...	1	2	...	...	3	...	...	...	...	...	...	...	...	...	1	1	...	4	4
Brooks	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	35	47	12	35	47
Carbon	4	1	32	3	4	44	1	...	...	3	4	...	1	9	5	12	17	10	60	70
Champion	1	...	10	...	...	11	...	...	...	1	...	...	...	1	...	...	...	1	11	12
Drumheller	26	77	717	156	172	1148	49	7	3	22	139	36	19	275	...	8	8	75	1356	1431
Edmonton	14	2	113	16	22	167	12	2	...	4	12	5	4	39	18	40	58	44	220	264
Gleichen	4	1	25	...	2	32	1	...	...	...	1	...	...	2	...	...	...	5	29	34
Pembina	...	...	1	...	...	1	...	...	...	...	...	...	...	...	4	57	61	4	58	62
Taber	1	1	8	...	...	10	...	...	...	...	1	...	...	1	9	25	34	10	35	45
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Whitecourt	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	3	...	3	3
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	1
Group 5:																				
Camrose	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8	36	44	8	36	44
Castor	6	3	10	...	3	22	...	1	...	...	...	...	...	1	8	84	92	14	101	115
Pakowki	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Redcliff	1	1	2	...	1	5	...	...	...	...	1	...	...	1	...	...	...	1	5	6
Sheerness	...	2	...	...	...	2	...	...	...	...	...	...	...	...	12	41	53	12	43	55
Tofield	...	1	4	...	...	5	...	...	...	...	...	...	...	...	13	22	35	13	27	40
Westlock	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	14	16	2	14	16
Total:	57	90	924	175	204	1450	63	10	3	30	158	41	24	329	97	401	498	217	2060	2277

Bituminous Field	133	67	1127	375	535	2237	189	18	35	76	446	331	192	1287	50	342	392	372	3544	3916
S.Bituminous Field	57	90	924	175	204	1450	63	10	3	30	158	41	24	329	97	401	498	217	2060	2277
Total:	190	157	2051	550	739	3687	252	28	38	106	604	372	216	1616	147	743	890	589	5604	6193

Men Employed above and below ground in the BITUMINOUS FIELD by areas during each month:

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	315	313	305	314	302	315	308	302	322	314	314	314	311
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	380	368	348	341	346	349	371	379	373	374	371	374	364
Group 2:													
Crowsnest	2076	2170	2081	2044	1953	1885	1768	1742	1788	1783	1718	1731	1894
Mtn. Park	318	323	176	225	248	243	239	229	186	206	217	217	235
Group 3:													
Coalspur	769	680	636	597	581	231	1005	648	652	686	696	701	656
Halcourt	3	2	...	...	...	...	...	...	...	...	...	...	2
Lethbridge	603	569	380	351	288	310	311	314	391	454	511	489	414
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	17	14	12	7	8	7	6	8	8	10	11	11	7
Pincher	3	...	...	...	2	...	...	2	...	2	...	...	3
Pr. Creek	4	5	3	3	3	3	...	...	...	3	...	12	5
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	67	60	54	38	27	27	29	46	60	64	63	67	50
Total:	4555	4504	3995	3920	3758	3370	4037	3670	3780	3896	3901	3916	3941

Men Employed above and below ground in the SUB-BITUMINOUS FIELD by areas during each month:

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	20	18	15	8	4	4	4	4	11	44	47	28	17
Big Valley	6	9	5	2	2	2	2	2	2	3	3	4	5
Brooks	54	44	22	20	12	14	...	51	41	41	43	47	32
Carbon	83	65	38	29	26	33	25	26	42	51	63	70	45
Champion	17	16	7	8	6	5	9	9	11	13	13	12	10
Drumheller	1538	1470	1070	893	857	1038	1207	1265	1285	1339	1419	1431	1233
Edmonton	262	188	130	89	77	71	73	86	130	207	279	264	154
Gleichen	33	28	21	16	15	9	9	13	19	30	32	34	22
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	88	72	63	47	64	65	51	52	64	60	72	62	63
Taber	50	35	19	9	7	6	7	7	33	36	46	45	25
Wetaskiwin	3	3	3	...	...	...	...	...	...	...	...	...	3
Whitecourt	2	2	2	...	...	...	...	...	...	...	8	3	1
No Area	...	...	...	...	...	...	...	...	...	...	...	1	1
Group 5:													
Camrose	52	39	33	15	16	12	14	16	29	36	45	44	29
Castor	128	108	66	47	50	35	52	59	88	124	126	115	83
Pakowki	1	1	...	1	...	...	...	...	1	...	1	...	1
Redcliff	8	7	8	6	...	6	9	11	11	14	17	6	8
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	51	50	51	42	38	33	37	39	52	57	58	55	47
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	52	44	35	24	27	6	21	21	20	45	49	40	32
Westlock	14	13	7	3	2	3	4	3	4	6	17	16	8
Total:	2462	2212	1595	1259	1203	1342	1524	1664	1843	2106	2338	2277	1819
Bituminous	4555	4504	3995	3920	3758	3370	4037	3670	3780	3896	3901	3916	3941
S. Bituminous	2462	2212	1595	1259	1203	1342	1524	1664	1843	2106	2338	2277	1819
Total:	7017	6716	5590	5179	4961	4712	5561	5334	5623	6002	6239	6193	5760

PER CAPITA PRODUCTION OF MINES IN THE PROVINCE:

Year	Gross tons of coal mined	Total average No. of men employed	Tons of coal mined per man employed	Average No. of employed men underground	Tons of coal mined per man employed underground
1906.....	1,385,000	2,800	494	2,000	692
1907.....	1,834,745	3,600	509	2,700	679
1908.....	1,845,000	3,780	488	2,681	688
1909.....	2,174,329	5,207	417	3,893	566
1910.....	3,036,757	5,818	504	4,090	742
1911.....	1,694,564	6,689	253	4,517	375
1912.....	3,446,349	6,661	517	4,861	708
1913.....	4,306,346	8,068	533	5,837	737
1914.....	3,821,739	8,170	467	6,052	631
1915.....	3,434,891	6,445	532	4,493	764
1916.....	4,648,604	7,570	614	5,536	839
1917.....	4,863,414	8,310	595	6,047	804
1918.....	6,148,620	8,818	697	6,141	1,001
1919.....	5,022,412	7,573	663	5,150	958
1920.....	6,908,923	9,688	712	6,551	1,055
1921.....	5,937,195	10,018	592	7,203	824
1922.....	5,976,432	8,747	683	6,154	971
1923.....	6,866,923	9,927	687	7,249	893
1924.....	5,202,713	7,317	711	5,299	982
1925.....	5,883,394	8,774	670	6,498	834
1926.....	6,508,908	8,763	743	6,569	991
1927.....	6,936,780	9,016	768	6,681	970
1928.....	7,334,179	9,496	772	6,625	1,107
1929.....	7,147,250	9,572	747	7,115	1,004
1930.....	5,755,911	8,889	648	6,607	871
1931.....	4,563,309	8,070	577	5,969	701
1932.....	4,867,984	7,837	621	5,772	844
1933.....	4,714,784	8,042	586	5,937	794
1934.....	4,748,848	7,863	604	5,809	744
1935.....	5,462,973	7,800	700	5,644	969
1936.....	5,696,375	8,110	702	5,940	959
1937.....	5,551,682	7,836	708	5,806	956
1938.....	5,230,015	7,411	706	5,427	965
1939.....	5,518,105	7,456	740	5,517	1,000
1940.....	6,205,088	7,416	836	5,526	1,122
1941.....	6,970,064	7,714	903	6,916	1,007
1942.....	7,754,279	8,040	964	5,865	1,322
1943.....	7,677,982	8,636	889	6,197	1,160*
1944.....	7,427,433	8,375	887	6,867	1,135*
1945.....	7,801,248	8,309	939	5,752	1,298*
1946.....	8,824,455	8,583	1,028	6,897	1,187*
1947.....	8,074,596	8,772	920	6,090	1,017*
1948.....	8,111,013	8,865	915	5,702	946*
1949.....	8,616,983	8,682	993	5,534	1,025*
1950.....	8,118,206	7,999	1,015	4,990	1,006*
1951.....	7,661,276	7,339	1,044	4,457	1,084*
1952.....	7,194,472	6,936	1,037	4,211	1,070*
1953.....	5,917,423	5,760	1,027	3,386	998*

* See Note over page.

PER CAPITA PRODUCTION OF MINES IN THE DOMESTIC COAL FIELD

Year		Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of men employed under-ground	Tons of coal mined per man employed underground
1910		878,011	2,307	380	1,676	524
1911		964,700	3,548	271	2,488	391
1912		1,341,389	2,980	450	2,283	587
1913		1,763,225	4,017	438	2,929	601
1914		1,697,401	4,219	402	3,190	532
1915		1,682,922	3,181	529	2,210	761
1916		2,172,801	4,132	525	3,137	692
1917		2,537,829	4,701	539	3,489	727
1918		3,035,061	4,896	619	3,420	887
1919		2,611,009	4,226	617	2,953	884
1920		3,359,309	5,173	647	3,723	902
1921		2,943,141	5,601	525	4,256	691
1922		3,086,669	4,981	620	3,752	823
1923		3,161,741	4,969	636	3,765	812
1924		3,096,660	4,543	681	3,447	898
1925		3,156,359	4,874	647	3,750	808
1926		3,160,029	4,798	658	3,714	816
1927		3,357,171	4,663	720	3,603	891
1928		3,378,200	4,810	702	3,700	873
1929		3,385,749	4,944	685	3,813	880
1930		2,874,090	4,822	596	3,756	765
1931		2,245,563	4,400	501	3,419	628
1932		2,574,785	4,548	566	3,539	728
1933		2,434,047	4,480	543	3,487	698
1934		2,295,566	4,289	535	3,370	644
1935	Stp. Pit	130,084	96	1,355	....	....
	B. Ground	2,517,828	3,927	658	3,058	823
1936	Stp. Pit	80,111	107	749	....	....
	B. Ground	2,761,120	4,112	671	3,243	851
1937	Stp. Pit	80,116	79	1,014	....	....
	B. Ground	2,551,034	3,148	810	3,162	832
1938	Stp. Pit	72,829	74	945	....	....
	B. Ground	2,380,434	3,573	667	2,846	801x
1939	Stp. Pit	76,394	73	1,048	....	....
	B. Ground	2,372,805	3,636	653	2,900	818x
1940	Stp. Pit	74,021	71	1,042	....	....
	B. Ground	2,463,184	3,556	692	2,844	866x
1941	Stp. Pit	88,142	63	1,399	....	....
	B. Ground	2,625,112	3,427	766	2,745	956x
1942	Stp. Pit	119,615	67	1,785	....	....
	B. Ground	3,093,498	3,485	888	2,777	1,114x
1943	Stp. Pit	137,307	78	1,760	....	....
	B. Ground	3,278,730	4,016	816	3,133	1,046x
1944	Stp. Pit	366,862	263	1,395	....	....
	B. Ground	2,779,939	3,565	882	2,826	984x

x See note over page

NOTE: Alberta Coals have been re-classified and Domestic Coal is now included in the new headings "Bituminous" and "Sub-Bituminous".

PER CAPITA PRODUCTION OF MINES IN THE SUB-BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1922-Stp. Pit	367,514	217	1,693	...	...
B. Ground	267,559	403	664	277	966
1923-Stp. Pit	288,467	190	1,513	...	...
B. Ground	174,994	354	494	260	673
1924-Stp. Pit	369,724	211	1,752	...	...
B. Ground	222,222	393	565	278	799
1925-Stp. Pit	335,993	162	2,074	...	...
B. Ground	245,842	461	533	326	754
1926-Stp. Pit	258,964	147	1,761	...	...
B. Ground	231,407	443	545	305	758
1927-Stp. Pit	304,584	193	1,583	...	...
B. Ground	290,606	476	608	321	905
1928-Stp. Pit	394,682	179	2,205	...	...
B. Ground	345,810	645	536	457	756
1929-Stp. Pit	319,764	163	1,962	...	...
B. Ground	348,344	585	595	402	866
1930-Stp. Pit	304,144	157	1,937	...	...
B. Ground	299,187	569	526	390	767
1931-Stp. Pit	280,251	161	1,803	...	...
B. Ground	191,138	486	393	336	569
1932-Stp. Pit	348,266	177	1,968	...	...
B. Ground	211,213	491	430	341	619
1933-Stp. Pit	309,365	170	1,820	...	...
B. Ground	244,776	516	474	370	661
1934-Stp. Pit	302,054	158	1,912	...	...
B. Ground	235,488	482	489	326	722
1935-Stp. Pit	287,970	180	1,600	...	...
B. Ground	278,466	501	830	337	826
1936-Stp. Pit	263,899	175	1,508	...	...
B. Ground	302,587	532	569	360	841
1937-Stp. Pit	229,747	149	1,542	...	...
B. Ground	276,782	504	549	348	795
1938-Stp. Pit	227,317	148	1,536	...	...
B. Ground	261,595	633	772	327	800x
1939-Stp. Pit	246,459	142	1,735	...	...
B. Ground	265,646	494	538	320	830x
1940-Stp. Pit	318,425	241	1,321	...	...
B. Ground	280,261	393	713	328	854x
1941-Stp. Pit	320,801	272	1,179	...	...
B. Ground	264,652	284	689	248	1,069x
1942-Stp. Pit	332,748	191	1,742	...	...
B. Ground	400,799	521	769	342	1,172x
1943-Stp. Pit	351,890	360	967	...	...
B. Ground	440,062	442	996	399	1,102x
1944-Stp. Pit	280,420	161	1,742	...	...
B. Ground	449,007	589	973	386	1,163x
1945-Stp. Pit	833,129	330	2,525	...	...
B. Ground	2,367,356	2,915	812	2,379	991x
1946-Stp. Pit	831,505	316	2,631	...	...
B. Ground	2,603,354	3,066	849	2,513	1,036x
1947-Stp. Pit	709,704	339	2,094	...	...
B. Ground	2,527,516	3,183	794	2,859	884x
1948-Stp. Pit	1,007,042	385	2,616	...	...
B. Ground	2,183,175	3,010	725	2,444	893x
1949-Stp. Pit	1,027,493	432	2,378	...	...
B. Ground	2,094,163	2,819	743	2,297	912x
1950-Stp. Pit	1,233,234	466	2,646	...	...
B. Ground	2,091,952	2,505	835	2,042	1,024x
1951-Stp. Pit	1,120,858	447	2,507	...	...
B. Ground	1,881,129	2,204	854	1,796	1,047x
1952-Stp. Pit	1,233,056	454	2,716	...	...
B. Ground	1,582,794	1,906	830	1,543	1,026x
1953-Stp. Pit	1,247,075	365	3,417	...	...
B. Ground	1,152,849	1,454	793	1,158	996x

xSee Note

BITUMINOUS COAL FIELD

Year	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Average No. of men employed underground	Tons of coal mined per man employed underground
1910	1,896,961	2,981	636	2,076	914
1911	649,745	2,645	246	1,820	357
1912	1,926,371	3,243	594	2,353	818
1913	2,374,401	3,562	666	2,645	897
1914	1,953,367	3,529	553	2,632	742
1915	1,626,237	2,921	557	2,103	773
1916	2,335,259	3,142	743	2,258	1,034
1917	2,206,868	3,335	661	2,429	909
1918	2,982,334	3,636	820	2,597	1,109
1919	2,325,787	3,118	745	2,100	1,108
1920	3,419,021	4,228	809	2,711	1,202
1921	2,897,380	4,133	701	2,820	1,026
1922	2,214,273	3,034	730	2,084	1,062
1923	3,241,614	4,345	746	3,215	1,008
1924	1,515,107	2,171	698	1,574	966
1925	2,145,200	3,277	654	2,422	885
1926	2,858,508	3,375	847	2,550	1,121
1927	2,984,419	3,682	810	2,757	1,082
1928	3,215,481	3,862	832	2,468	1,302
1929	3,093,393	3,880	797	2,898	1,077
1930	2,278,490	3,341	682	2,461	926
1931	1,846,357	3,023	611	2,214	834
1932	1,733,720	2,621	660	1,892	916
1933	1,726,596	2,876	600	2,080	830
1934	1,915,740	2,934	653	2,113	907
1935	2,248,625	3,096	726	2,248	1,000
1936	2,288,658	3,184	719	2,337	979
1937	2,414,003	3,156	765	2,295	1,052
1938	2,287,840	3,131	731	2,254	1,015
1939	2,556,801	3,111	822	2,297	1,113
1940	3,069,197	3,155	972	2,354	1,303
1941	3,671,357	3,568	1,029	2,659	1,381
1942	3,807,619	3,766	1,008	2,746	1,387
1943	3,469,993	3,740	927	2,665	1,302
1944 Stp. Pit	119,092	35	3,403	....	....
B. Ground	3,432,113	3,762	935	2,655	1,293
1945 Stp. Pit	491,736	209	2,364	....	....
B. Ground	4,109,027	4,825	852	3,373	1,218
1946 Stp. Pit	991,335	332	2,986	....	....
B. Ground	4,398,261	4,869	903	3,384	1,300
1947 Stp. Pit	1,170,875	405	2,891	....	....
B. Ground	3,666,501	4,845	757	3,231	1,135
1948 Stp. Pit	1,709,039	552	3,096	....	....
B. Ground	3,211,757	4,918	653	3,258	986
1949 Stp. Pit	1,914,463	630	3,039	....	....
B. Ground	3,580,864	4,801	746	3,237	1,106
1950 Stp. Pit	1,865,120	588	3,172	....	....
B. Ground	2,927,900	4,440	659	2,948	993
1951 Stp. Pit	1,708,256	634	2,691	....	....
B. Ground	2,951,033	4,054	728	2,661	1,109
1952 Stp. Pit	1,455,453	532	2,736	....	....
B. Ground	2,923,169	4,044	723	2,668	1,095
1953 Stp. Pit	1,288,118	408	3,157	....	....
B. Ground	2,229,381	3,533	631	2,228	1,001

ANTHRACITE COAL FIELD

1910	261,765	530	493	338	774
1911	80,119	500	160	209	383
1912	178,589	438	407	225	793
1913	168,720	489	345	263	641
1914	170,971	422	405	230	743
1915	125,732	343	366	180	698
1916	140,544	296	474	141	996
1917	118,717	284	418	129	920
1918	131,225	286	458	124	1,058
1919	85,616	229	374	95	901
1920	130,594	287	455	117	1,116
1921	96,674	284	341	127	761
1922	40,417	112	361	41	986
1923	107	69	1	9	12

NOTE: The table showing the number of men employed in the Anthracite Coal Field includes employees at the briquetting plant. There has been no Anthracite Coal produced since 1923

x Calculating the total per capita production for men employed underground, the tonnage mined from stripping pits was deducted and only the tonnage produced from the mines was used.

It will also be noted that the tonnage used in the above and following tables does not include tonnage extracted under Permit.

NOTE: Previous to 1944 there was no coal mined in the Bituminous Field by Stripping Methods.

PER CAPITA PRODUCTION OF MINES BY AREAS:

BITUMINOUS COAL FIELD

Areas	Strip and Underground Mining					Strip Mining					Underground Mining				
	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined per Eight-hour man-shift	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined per Eight-hour man-shift	Gross tons of coal mined	Total Average No. of men employed	Tons of coal mined per man employed	Total No. of Man-shifts	Tons of coal mined per Eight-hour man-shift
Group 1:															
Cascade......	238608	311	767	67403	3.54	...	...	...	...	...	238608	311	767	67403	3.54
Nordegg	275800	364	758	73385	3.76	40869	8	5109	2080	1.96	234931	356	660	71305	3.29
Group 2:															
Crowsnest....	1697581	1894	896	348097	4.87	680125	237	2870	49546	13.73	1017456	1657	614	298551	3.40
Mountain Park.	482681	235	2054	60075	8.03	338438	70	4835	18162	18.63	144243	165	874	41913	3.44
Group 3:															
Coalspur.....	636086	656	970	145973	4.36	228347	91	2509	25999	8.78	407739	565	722	119974	3.40
Halcourt.....	128	2	64	70	1.83	55	1	55	4	13.75	73	1	73	66	1.10
Lethbridge...	163392	414	395	63607	2.57	284	1	284	51	5.57	163108	413	395	63556	2.57
Pekisko......	6712	7	958	1673	4.01	...	...	...	...	...	6712	7	958	1673	4.01
Pincher......	86	3	28	179	.48	...	...	...	...	...	86	3	28	179	.48
Prairie Creek.	1102	5	220	659	1.67	...	...	...	...	...	1102	5	220	659	1.67
Saunders.....	15323	50	306	9076	1.69	...	...	...	...	...	15323	50	306	9076	1.69
Total........	3517499	3941	893	770197	4.56	1288118	408	3157	95842	13.44	2229381	3533	631	674355	3.30

SUB-BITUMINOUS COAL FIELD

Group 4;															
Ardley	46847	17	2756	4448	10.53	46847	17	2756	4448	10.53	...	...	...	...	...
Big Valley ...	1973	5	395	581	3.39	1208	2	604	153	7.89	765	3	255	428	1.78
Brooks	48699	32	1522	9719	5.01	48699	32	1522	9719	5.01	...	...	...	...	...
Carbon	40507	45	900	9162	4.42	22399	11	2036	2453	9.13	18108	34	533	6709	2.69
Champion	5679	10	568	1259	4.51	...	...	...	...	...	5679	10	568	1259	4.51
Drumheller ...	1028067	1233	834	238991	4.30	5558	4	1389	449	12.37	1022509	1229	832	238542	4.28
Edmonton	233061	154	1513	33425	6.97	153477	42	3654	11488	13.35	79584	112	711	21937	3.62
Gleichen	9303	22	423	4305	2.16	...	...	...	...	...	9303	22	423	4305	2.16
Pembina	270732	63	4297	15237	17.76	270478	62	4363	15188	17.80	254	1	254	49	5.18
Taber	43553	25	1742	4399	9.90	40376	16	2523	2873	14.05	3177	9	353	1526	2.08
Wetaskiwin ...	220	3	73	118	1.86	...	...	...	...	...	220	3	73	118	1.86
Whitecourt ...	565	1	565	176	3.21	565	1	565	176	3.21	...	...	...	...	...
No Area	64	1	64	15	4.26	64	1	64	15	4.26	...	...	...	...	...
Group 5;															
Camrose	52244	29	1802	6798	7.68	52244	29	1802	6798	7.68	...	...	...	...	...
Castor	426235	83	5135	19820	21.50	419491	67	6261	17287	54.26	6744	16	422	2533	2.66
Pakowki	45	1	45	20	2.25	...	...	...	...	...	45	1	45	20	2.25
Redcliff	4339	8	542	1653	2.62	...	...	...	...	...	4339	8	542	1653	2.62
Sheerness	96722	47	2058	11361	8.51	96602	46	2100	11301	8.54	120	1	120	60	2.00
Tofield	80719	32	2522	8044	10.03	78717	27	2915	7601	10.35	2002	5	400	443	4.51
Westlock	10350	8	1294	1803	5.74	10350	8	1294	1803	5.74	...	...	...	...	...
Total	2399924	1819	1319	371334	6.46	1247075	365	3417	91752	13.59	1152849	1454	793	279582	4.12

SUMMARY

Bituminous	3517499	3941	893	770197	4.56	1288118	408	3157	95842	13.44	2229381	3533	631	674355	3.30
Sub-bituminous ..	2399924	1819	1319	371334	6.46	1247075	365	3417	91752	13.59	1152849	1454	793	279582	4.12
Total	5917423	5760	1027	1141531	5.18	2535193	773	3279	187592	13.51	3382230	4987	678	953937	3.54

Number of days on which Coal was drawn in the BITUMINOUS FIELD by areas during each month

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 1:													
Cascade	11.0	8.0	11.0	10.5	11.5	12.5	12.5	8.0	14.0	21.0	20.0	20.0	160.0
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	18.0	14.0	9.0	11.0	14.0	20.0	22.0	21.0	17.0	18.0	13.0	18.0	195.0
Group 2:													
Crowsnest	17.6	13.3	12.1	9.7	13.7	12.0	12.4	12.3	10.8	15.1	14.4	17.8	161.2
Mtn. Park	26.0	21.0	16.0	23.0	23.0	21.0	18.0	18.0	18.0	25.0	22.0	23.0	254.0
Group 3:													
Coalspur	21.0	17.2	17.2	20.7	22.0	22.0	20.5	22.0	21.5	22.0	20.2	21.7	248.0
Halcourt	11.0	15.0	...	...	...	...	...	...	...	...	...	...	26.0
Lethbridge	9.7	6.2	8.0	7.6	8.2	6.8	7.6	8.6	17.4	18.0	19.5	12.3	129.9
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	20.0	17.0	15.0	2.0	2.0	6.0	3.0	4.0	13.0	17.0	21.0	22.0	142.0
Pincher	23.0	...	...	...	6.0	...	...	10.0	...	4.0	...	...	43.0
Pr. Creek	16.0	17.0	15.0	8.0	12.0	2.0	...	...	...	6.0	...	18.5	94.5
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	14.0	7.0	6.0	3.0	1.0	7.0	15.0	15.0	21.0	22.0	14.0	12.0	137.0
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	187.3	135.7	109.3	95.5	113.4	109.3	111.0	118.9	132.7	168.1	144.1	165.3	1590.6
													173.6

Number of days on which Coal was drawn in the SUB-BITUMINOUS FIELD by areas during each month

500-2

	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	TOTAL
Group 4:													
Ardley	25.7	22.7	21.7	13.0	12.0	10.0	13.0	16.0	24.5	25.7	24.7	23.3	232.3
Big Valley	16.0	11.5	9.0	3.0	3.0	1.0	9.0	17.0	22.0	26.0	19.0	21.5	158.0
Brooks	4.0	1.5	11.5	1.0	...	...	...	6.5	18.5	24.5	22.5	15.0	105.0
Carbon	17.7	12.3	11.4	13.8	10.0	7.5	10.8	14.6	13.9	21.1	21.8	19.8	174.7
Champion	18.0	9.7	11.0	8.0	5.0	5.0	8.0	13.5	19.0	21.0	21.0	15.5	154.7
Drumheller	15.8	7.9	11.6	11.6	11.7	13.5	10.8	12.6	17.7	18.6	17.6	18.3	167.7
Edmonton	18.4	13.9	13.2	8.9	12.6	11.0	8.7	13.4	19.9	21.7	20.0	17.0	178.7
Gleichen	23.0	18.3	13.7	13.0	6.7	8.5	11.5	22.5	25.0	21.7	22.0	20.0	205.9
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	18.1	15.2	11.4	11.4	12.2	11.0	14.3	13.0	15.2	16.8	19.7	16.8	175.1
Taber	7.2	4.0	4.5	6.0	10.0	8.0	12.0	11.0	10.7	16.3	19.0	10.2	118.9
Wetaskiwin	21.0	14.0	7.0	...	...	...	...	...	...	...	...	...	42.0
Whitecourt	23.0	8.0	6.0	...	...	...	...	...	...	...	12.5	20.5	70.0
No Area	...	...	...	...	...	...	...	...	...	...	...	15.0	15.0
Group 5:													
Camrose	20.2	12.2	14.7	6.0	6.0	4.0	4.0	5.5	11.7	17.3	20.5	21.5	143.6
Castor	17.2	12.3	12.0	17.0	11.2	15.0	9.0	9.4	14.9	17.9	18.0	16.6	170.5
Pakowki	6.0	4.0	...	4.0	...	...	...	...	3.0	...	3.0	...	20.0
Redcliff	14.0	12.0	10.0	...	...	20.0	7.0	18.0	22.0	25.0	22.0	15.0	165.0
Rochester	...	...	...	...	...	...	...	...	...	...	...	...	...
Sheerness	15.7	16.0	16.5	8.5	4.0	4.0	3.0	4.0	10.3	17.0	20.0	10.0	129.0
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	17.2	15.4	15.8	10.4	8.7	14.5	10.3	10.0	12.4	20.6	20.6	20.0	175.9
Westlock	24.0	19.3	15.3	18.0	8.0	3.0	1.0	5.0	18.0	18.0	24.0	24.0	177.6
Total:	322.2	230.2	216.3	153.6	121.1	136.0	132.4	192.0	278.7	329.2	347.9	320.0	2779.6
													163.3
Bituminous	187.3	135.7	109.3	95.5	113.4	109.3	111.0	118.9	132.7	168.1	144.1	165.3	1590.6
S. Bituminous	322.2	230.2	216.3	153.6	121.1	136.0	132.4	192.0	278.7	329.2	347.9	320.0	2779.6
Total:	509.5	365.9	325.6	249.1	234.5	245.3	243.4	310.9	411.4	497.3	492.0	485.3	4370.2
													168.5

Total number of shifts worked above and below ground by areas during each month, for the six months ending June 30th, 1953

BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total January to June	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 1;														
Cascade	2319	2715	1808	1822	2377	2756	2348	2505	2469	2630	2859	2888	14180	15316
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	2407	4794	1909	3535	1628	2500	1817	2852	1930	3492	2324	4417	12015	21590
Group 2:														
Crowsnest	16906	21270	15084	16202	15244	15861	12851	11651	14358	14556	13755	13168	88198	92707
Mtn. Park	4890	2344	4377	1960	3177	1082	3277	945	4549	993	4354	948	24624	8272
Group 3:														
Coalspur	7123	7547	5564	5278	5861	4598	5350	4323	5635	4518	3099	2080	32632	28344
Halcourt	4	36	...	30	...	...	...	...	...	...	...	...	4	66
Lethbridge	2139	4648	1334	2058	1370	2323	1282	2244	1283	1824	1453	2785	8861	15882
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	104	218	97	159	69	122	4	18	6	16	18	29	298	562
Pincher	...	69	...	...	...	...	...	...	...	40	...	...	...	109
Pr. Creek	...	72	...	85	...	69	...	51	...	48	...	28	...	353
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	280	746	221	362	192	308	154	166	115	68	169	260	1131	1910
Total:	36172	44459	30394	31491	29918	29619	27083	24755	30345	28187	28031	26600	181943	185111

Total number of shifts worked above and below ground by areas during each month for the six months ending
December 31st, 1953

BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July To Dec.		Total for year 1953	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 1:																
Cascade	2920	2893	4438	1686	3052	3277	3120	3711	2895	3560	2839	3516	19264	18643	33444	33959
Highwood	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nordegg	2661	4461	2647	4329	2401	3964	2540	4430	2156	3358	2473	4360	14878	24902	26893	46492
Group 2:																
Crowsnest	14101	12847	13995	11665	13190	10678	15975	14400	15411	13306	16393	15231	89065	78127	177263	170834
Mtn. Park	4241	732	3383	695	2724	654	3916	943	3944	868	4209	870	22417	4762	47041	13034
Group 3:																
Coalspur	7634	8993	5842	6155	6284	6776	6550	8016	5841	7924	6387	8595	38538	46459	71170	74803
Halcourt	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	66
Lethbridge	1520	2851	1587	2841	2209	4708	2325	6289	2617	5781	1953	4183	12211	26653	21072	42535
Morley	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pekisko	7	20	12	26	46	68	65	112	69	164	70	154	269	544	567	1106
Pincher	...	...	...	48	...	...	...	22	...	...	...	...	...	70	...	179
Pr. Creek	...	...	...	...	...	...	...	54	...	...	...	252	...	306	...	659
Red Deer	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Saunders	145	265	274	726	343	961	352	1014	262	738	278	677	1654	4381	2785	6291
No Area	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total:	33229	33062	32178	28171	30249	31086	34843	38991	33195	35699	34602	37838	198296	204847	380239	389958

Total number of shifts worked above and below ground by areas during each month for the six months ending June 30th, 1953

SUB-BITUMINOUS FIELD

Areas	January		February		March		April		May		June		Total January to June	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 4;														
Ardley	490	...	368	...	286	...	148	...	90	...	93	...	1475	...
Big Valley	53	38	63	28	24	20	...	10	...	30	...	18	140	144
Brooks	3454	...	573	...	479	...	443	...	96	...	321	...	5366	...
Carbon	467	840	372	566	192	338	149	229	157	195	371	241	1708	2409
Champion	43	199	27	128	11	51	7	55	3	35	4	28	95	496
Drumheller	5657	21586	3988	12634	.3571	9058	5568	9230	3396	9455	4070	12204	24250	74167
Edmonton	2452	2434	1643	1072	1332	974	676	682	636	754	728	679	7467	6595
Gleichen	19	677	18	460	6	275	7	267	...	108	8	44	58	1831
Milk River	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Pembina	1765	7	1166	5	1117	2	779	...	1539	...	1237	...	7403	14
Taber	498	158	241	85	207	76	10	94	10	85	10	82	976	580
Wetaskiwin	...	55	...	42	...	21	...	...	...	...	...	...	...	118
Whitecourt	23	...	8	...	12	...	...	...	...	...	...	...	43	...
Group 5;														
Camrose	942	...	643	...	585	...	327	...	345	...	287	...	3129	...
Castor	2216	475	1186	272	975	187	756	80	845	25	702	31	6680	1070
Pakowki	...	6	...	4	...	...	...	4	...	...	...	...	...	14
Redcliff	52	95	51	64	39	56	...	91	...	...	...	115	142	421
Sheerness	1089	6	841	...	838	...	903	...	794	...	676	...	5141	6
Slave	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tofield	1162	54	831	54	760	34	456	29	528	26	76	24	3835	221
Westlock	287	...	237	...	112	...	53	...	52	...	67	...	808	...
Total.	20689	26630	12256	15414	10546	11092	8282	10771	8291	10713	8652	13466	68716	88086

SUMMARY

	January		February		March		April		May		June		Total January to June	
Bituminous	36172	44459	30394	31491	29918	29619	27083	24755	30345	28187	28031	26600	181943	185111
S. Bituminous	20689	26630	12256	15414	10546	11092	8282	10771	8291	10713	8652	13466	68716	88086
Total;	56861	71089	42650	46905	40464	40711	35365	35526	38636	38900	36683	40066	250659	273197

Total number of shifts worked above and below ground by areas during each month for the six months ending December 31st, 1953

SUB-BITUMINOUS FIELD

Areas	July		August		September		October		November		December		Total July To Dec.		Total 1953	
	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.	Above Grd.	Below Grd.
Group 4:																
Ardley	108	...	103	...	230	...	863	...	1069	...	600	...	2973	...	4448	...
Big Valley	...	30	...	38	...	44	...	57	...	57	24	47	24	273	164	417
Brooks	...	...	1159	...	880	...	842	...	901	...	571	...	4353	...	9719	...
Carbon	117	232	150	311	255	423	546	544	542	679	507	739	2117	2928	3825	5337
Champion	6	62	11	67	18	87	20	120	24	133	14	106	93	575	188	1071
Drumheller	3541	10440	4269	13007	5011	18332	6329	22379	6016	21837	6134	23279	31300	109274	55550	183441
Edmonton	674	462	789	707	1295	1142	2167	2232	2525	2915	1943	2512	9393	9970	16860	16565
Gleichen	13	79	23	230	23	308	31	491	36	630	33	519	159	2257	217	4088
Pembina	1189	...	1242	...	1378	...	1185	8	1515	15	1276	12	7785	35	15188	49
Taber	12	92	11	86	422	96	588	174	637	168	409	148	2079	764	3055	1344
Wetaskiwin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	118
Whitecourt	...	...	...	...	...	...	...	...	102	...	31	...	133	...	176	...
No Area	...	...	...	...	...	...	...	...	...	...	15	...	15	...	15	...
Group 5:																
Camrose	295	...	305	...	525	...	780	...	968	...	796	...	3669	...	6798	...
Castor	1118	14	1208	38	1600	202	2395	328	2304	378	2208	277	10833	1237	17513	2307
Pakowki	...	...	...	...	...	3	...	...	...	3	...	...	...	6	...	20
Redcliff	7	120	31	160	26	124	50	215	23	236	15	83	152	938	294	1359
Sheerness	635	...	856	...	832	10	1342	6	1361	30	1134	8	6160	54	11301	60
Tofield	453	24	434	24	383	29	749	44	1013	49	742	44	3774	214	7609	435
Westlock	78	...	53	...	65	...	104	...	369	...	326	...	995	...	1803	...
Total:	8246	11555	10644	14668	12943	20800	17991	26598	19405	27130	16778	27774	86007	128525	154723	216611

SUMMARY

Areas	July Above Grd.	July Below Grd.	August Above Grd.	August Below Grd.	September Above Grd.	September Below Grd.	October Above Grd.	October Below Grd.	November Above Grd.	November Below Grd.	December Above Grd.	December Below Grd.	Total July To Dec. Above Grd.	Total July To Dec. Below Grd.	Total 1953 Above Grd.	Total 1953 Below Grd.
Bituminous	33229	33062	32178	28171	30249	31086	34843	38991	33195	35699	34602	37838	198296	204847	380239	389958
S. Bituminous	8246	11555	10644	14668	12943	20800	17991	26598	19405	27130	16778	27774	86007	128525	154723	216611
Total:	41475	44617	42822	42839	43192	51886	52834	65589	52600	62829	51380	65612	284303	333372	534962	606569

PRODUCTION OF COAL PER EIGHT-HOUR MAN-SHIFT

Year	Gross tons of coal mined	Total No. of Eight-hour Man-shifts	Average No. of Tons of Coal mined per Eight-hour Shift
1927	6,936,780	2,196,712	3.157
1928	7,334,179	2,282,098	3.213
1929	7,147,250	2,261,064	3.161
1930	5,755,911	1,823,826	3.155
1931	4,563,309	1,396,696	3.267
1932	4,867,984	1,475,813	3.299
1933	4,714,784	1,440,985	3.271
1934	4,748,848	1,342,086	3.538
1935	5,462,973	1,614,032	3.384
1936	5,696,375	1,696,998	3.356
1937	5,551,682	1,620,003	3.426
1938	5,230,015	1,498,855	3.489
1939	5,518,105	1,549,042	3.562
1940	6,205,088	1,673,948	3.706
1941	6,970,064	1,877,968	3.711
1942	7,754,279	2,229,655	3.477
1943	7,677,982	2,200,426	3.489
1944	7,427,433	2,034,155	3.651
1945	7,801,248	1,990,452	3.919
1946	8,824,455	2,105,511	4.191
1947	8,074,596	1,998,002	4.041
1948	8,111,013	1,894,837	4.280
1949	8,616,983	1,910,922	4.510
1950	8,118,206	1,735,316	4.678
1951	7,661,276	1,683,061	4.552
1952	7,194,472	1,522,264	4.726
1953	5,917,423	1,141,531	5.184

AMOUNT OF MINE TIMBER USED DURING THE YEAR

BITUMINOUS COAL FIELD

Area	Timber, lineal feet	Lumber, B.M. feet	Lagging, lineal feet	Ties, lineal feet	Sprags, lineal feet
Group 1:					
Cascade	583,613	1,500	3,500	33,286	....
Nordegg	828,830	....	....	....	....
Group 2:					
Crowsnest	2,381,438	1,982,546	1,574,529	17,935	4,625
Mountain Park	18,197	71,491	32,620	370	350
Group 3:					
Coalspur	520,364	504,312	104,907	11,844	400
Halcourt	1,680	....	....	500	....
Lethbridge	867,234	97,607	1,785	72,205	325
Pekisko	12,600	....	....	360	....
Pincher	1,200	....	....	....	....
Prairie Creek	6,000	5,000	1,240	....	....
Saunders	81,566	....	8,440	7,616	....
Total	5,302,722	2,662,456	1,727,021	144,116	5,700

SUB-BITUMINOUS COAL FIELD

Area	Timber, lineal feet	Lumber, B.M. feet	Lagging, lineal feet	Ties, lineal feet	Sprags, lineal feet
Group 4:					
Brooks	....	....	....	1,000	....
Carbon	110,034	1,500	12,042	9,740	....
Champion	72,160	7,800	47,000	1,150	13,950
Drumheller	4,346,441	30,276	20,000	419,655	....
Edmonton	488,942	13,500	8,648	41,208	....
Gleichen	19,766	2,244	1,840	442	....
Pembina	502	3,000	....	375	....
Taber	30,400	....	600	1,680	....
Wetaskiwin	200	....	50	....	....
Group 5:					
Castor	31,455	7,000	2,550	3,545	300
Pakowki	600	....	....	90	....
Redcliff	6,226	7,751	....	....	....
Sheerness	100	....	....	50	....
Tofield	9,150	....	....	2,935	....
Total	5,115,976	73,071	92,730	481,870	14,250

PARTICULARS OF LAMPS IN THE BITUMINOUS AND SUB-BITUMINOUS COAL FIELDS DURING THE YEARS 1952 and 1953

BITUMINOUS

	1952	1953
Portable Electric Lamps, Edison Cap Type	3,935	3,579
Wolfe Flame Type	291	258
Total	4,226	3,837

SUB-BITUMINOUS

	1952	1953
Portable Electric Lamps, Edison Cap Type	1,401	1,358
Wolfe Flame Type	195	165
Total	1,596	1,523

QUANTITY OF EXPLOSIVES USED IN POUNDS FOR BLASTING COAL:

BITUMINOUS COAL FIELD

Area	Name of Explosive					Total
	Pellet	Monobel	C.X.L.-ite	Cardox	Forcite	
Group 1:						
Cascade..................	....	33,950	....	....	....	33,950
Nordegg..................	....	224	....	....	....	224
Group 2:						
Crowsnest................	....	29,650	....	1,071	145,000	175,721
Mountain Park............	....	26,910	....	....	....	26,910
Group 3:						
Coalspur.................	....	144,676	18,300	....	6,600	169,576
Lethbridge...............	510	16,472	....	14,000	....	30,982
Pekisko..................	5,250	200	....	....	....	5,450
Pincher..................	....	50	....	....	....	50
Prairie Creek............	....	300	....	....	....	300
Saunders.................	....	4,205	....	....	....	4,205
Total	5,760	256,637	18,300	15,071	151,600	447,368

SUB-BITUMINOUS COAL FIELD

Group 4:						
Ardley...................	11,458	750	....	....	....	12,208
Big Valley...............	30	....	....	....	....	30
Brooks...................	6,250	400	....	....	....	6,650
Carbon...................	5,002	3,050	....	....	....	8,052
Champion.................	3,020	....	....	....	....	3,020
Drumheller...............	47,784	58,396	459	153,948	....	260,587
Edmonton.................	1,750	11,559	....	....	....	13,309
Gleichen.................	1,420	100	....	....	.....	1,520
Pembina..................	550	3,650	....	....	....	4,200
Taber....................	1,125	25	....	....	....	1,150
Wetaskiwin...............	50	....	....	....	....	50
Whitecourt...............	....	110	....	....	....	110
No Area..................	....	....	10	....	....	10
Group 5:						
Camrose..................	....	2,300	....	....	....	2,300
Castor...................	5,230	2,295	....	....	....	7,525
Pakowki..................	....	20	....	....	....	20
Redcliff.................	552	....	....	....	....	552
Sheerness................	216	....	....	....	....	216
Tofield..................	996	600	....	....	....	1,596
Westlock.................	100	91	....	....	....	191
Total....................	85,533	83,346	469	153,948	....	323,296

Number of tons of Coal produced per pound of
Explosives used for blasting coal:

BITUMINOUS COAL FIELD

Area	Number of tons of coal mined	Number of Pounds of Explosives used	Tons of coal mined per pound of explosive used
Group 1:			
Cascade....................	238,608	33,950	7.03
Nordegg....................	275,800	224	123.12
Group 2:			
Crowsnest..................	1,697,581	175,721	9.66
Mountain Park..............	482,681	26,910	17.94
Group 3:			
Coalspur...................	636,086	169,576	3.75
Halcourt	128	....	....
Lethbridge	163,392	30,982	5.27
Pekisko	6,712	5,450	1.24
Pincher....................	86	50	1.72
Prairie Creek	1,102	300	3.67
Saunders	15,323	4,205	3.64
Total......................	3,517,499	447,368	7.84

SUB-BITUMINOUS COAL FIELD

Group 4:			
Ardley.....................	46,847	12,208	3.84
Big Valley	1,973	30	65.77
Brooks	48,699	6,650	7.32
Carbon.....................	40,507	8,052	5.03
Champion	5,679	3,020	1.88
Drumheller	1,028,067	260,587	3.96
Edmonton	233,061	13,309	17.51
Gleichen	9,303	1,520	6.12
Pembina	270,732	4,200	64.46
Taber	43,553	1,150	37.87
Wetaskiwin	220	50	4.40
Whitecourt	565	110	5.13
No Area....................	64	10	6.40
Group 5:			
Camrose	52,244	2,300	22.71
Castor	426,235	7,525	56.64
Pakowki	45	20	2.25
Redcliff...................	4,339	552	7.86
Sheerness..................	96,722	216	447.78
Tofield	80,719	1,596	50.57
Westlock	10,350	191	54.18
Total......................	2,399,924	323,296	7.42

Estimated number of shots fired for Blasting Coal:

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 1:				
Cascade	62,484	.....	.....	62,484
Nordegg	432	.....	.....	432
Group 2:				
Crowsnest	33,897	.....	531	34,428
Mountain Park	10,151	.....	.....	10,151
Group 3:				
Coalspur	117,175	.....	.....	117,175
Lethbridge	34,383	280	3,794	38,457
Pekisko	3,650	.....	.....	3,650
Pincher	100	.....	.....	100
Prairie Creek	708	.....	.....	708
Saunders	5,944	.....	.....	5,944
Total	268,924	280	4,325	273,529

SUB-BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 4:				
Ardley	6,935	800	.....	7,735
Big Valley	50	.....	.....	50
Brooks	12,832	.....	.....	12,832
Carbon	11,836	408	.....	12,244
Champion	450	2,530	.....	2,980
Drumheller	172,135	.....	40,219	212,354
Edmonton	21,630	.....	.....	21,630
Gleichen	1,275	.....	.....	1,275
Pembina	4,020	.....	.....	4,020
Taber	50	670	.....	720
Wetaskiwin	60	.....	.....	60
Whitecourt	280	.....	.....	280
No Area	10	.....	.....	10
Group 5:				
Camrose	2,098	.....	.....	2,098
Castor	6,299	672	......	6,971
Pakowki	35	.....	.....	35
Redcliff	734	.....	.....	734
Sheerness	105	.....	.....	105
Tofield	1,780	.....	.....	1,780
Westlock	177	.....	.....	177
Total	242,791	5,080	40,219	288,090

Number of miss-fire shots recorded in Blasting Coal in the Province:

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Cardox Heaters	Total
Group 1:				
Cascade	4	....	....	4
Group 3:				
Lethbridge	....	....	43	43
Total	4	....	43	47

SUB-BITUMINOUS COAL FIELD

Group 4:				
Carbon	13	....	....	13
Champion	....	16	....	16
Drumheller	3	....	89	92
Edmonton	3	....	....	3
Pembina	2	....	....	2
Taber	....	4	....	4
Group 5:				
Castor	2	12	....	14
Total	23	32	89	144

Quantity of Explosives used in pounds for Blasting Rock in Coal-mines in the Province.

BITUMINOUS COAL FIELD

Area	Monobel	C.X.L.-ite	Forcite	Total
Group 1:				
Cascade	....	3,300	....	3,300
Nordegg	....	272	....	272
Group 2:				
Crowsnest	....	4,508	202,746	207,254
Mountain Park	....	310,240	80,150	390,390
Oldman	....	....	15	15
Group 3:				
Coalspur	....	43,200	43,750	86,950
Lethbridge	90	....	....	90
Pincher	50	....	....	50
Prairie Creek	152	....	....	152
Saunders	....	88	....	88
Total	292	361,608	326,661	688,561

SUB-BITUMINOUS COAL FIELD

Group 4:				
Brooks	3,937	....	....	3,937
Carbon	305	50	....	355
Champion	....	200	....	200
Drumheller	115	7,925	....	8,040
Gleichen	90	....	....	90
Pembina	2,450	135	....	2,585
Taber	125	....	....	125
Group 5:				
Sheerness	14	....	....	14
Total	7,036	8,310	....	15,346

Estimated number of shots fired for Blasting Rock in Coal-mines in the Province

BITUMINOUS COAL FIELD

Area	Electric Detonators	Electric Squibs	Total
Group 1:			
Cascade	2,987	....	2,987
Nordegg	419	....	419
Group 2:			
Crowsnest	19,157	....	19,157
Mountain Park	20,137	....	20,137
Oldman	10	....	10
Group 3:			
Coalspur	4,443	....	4,443
Lethbridge	50	....	50
Pincher	100	....	100
Prairie Creek	39	....	39
Saunders	89	....	89
Total	47,431	....	47,431

SUB-BITUMINOUS COAL FIELD

Group 4:			
Brooks	101	....	101
Carbon	465	....	465
Champion	250	....	250
Drumheller	18,782	....	18,782
Gleichen	150	20	170
Pembina	1,088	....	1,088
Taber	335	....	335
Group 5:			
Sheerness	12	....	12
Total	21,183	20	21,203

ELECTRICITY

Area	No. of Mines using Electricity	Horse-power of electrical apparatus in use		Total Horse-Power	Purchased Power
		Above Ground	Below Ground		
Brooks	2	271	....	271	119,360
Camrose	1	103	....	103	61,500
Carbon	7	77	135	212	136,840
Cascade	1	4107	....	4107	9,138,600
Castor	9	1247	77	1324	1,625,000
Coalspur	4	2541	1394	3935	....
Crowsnest	7	19828	4404	24232	28,282,380
Drumheller	15	3599	7579	11178	6,643,182
Edmonton	12	641	938	1579	836,900
Gleichen	2	7	20	27	18,960
Lethbridge	3	2128	1965	4093	2,533,620
Mountain Park	1	1703	25	1728	....
Nordegg	1	3852	258	4110	8,076,400
Pekisko	1	90	6	96	650
Pembina	1	91	....	91	78,140
Prairie Creek	1	15	34	49	....
Redcliff	1	93	61	154	35,000
Saunders	1	93	108	201	225,000
Sheerness	3	1521	....	1521	653,281
Taber	4	148	38	186	30,860
Tofield	4	430	8	438	4,920
Total	81	42,585	17,050	59,635	58,500,593

COAL-CUTTING MACHINERY

Area	No. of machines operated by:			Tons of coal mined by:	
	Electricity	Compressed Air		Electricity	Compressed Air
		Picks	Mach.		
Carbon	6	....	1	17,363	421
Cascade	....	57	....	....	178,782
Castor	6	....	2	2,021	200
Champion	....	....	1	....	136
Coalspur	1	....	57	8,000	397,801
Crowsnest	....	325	....	....	670,356
Drumheller	80	....	....	1,137,838	....
Edmonton	18	....	....	78,954	....
Gleichen	2	....	....	7,414	....
Lethbridge	24	....	1	160,649	612
Nordegg	....	100	....	....	150,000
Pembina	....	....	1	....	189
Prairie Creek	1	....	....	1,102	....
Redcliff	2	....	....	4,037	....
Saunders	.....	....	6	....	15,323
Taber	2	....	....	4,650	....
Tofield	2	....	....	2,420	....
Total	144	482	69	1,424,448	1,413,820

ACCIDENTS

Summary table showing Accidents occurring in the Mines from 1906 to 1953 inclusive, reportable under the Coal Mines Regulation Act.

Year	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
1906.......	1,385,000	10	11	20	138,500	126,909	60,250
1907.......	1,834,745	19	18	68	96,565	101,930	26,981
1908.......	1,845,000	11	38	13	167,727	48,552	141,923
1909.......	2,174,329	9	42	18	241,952	51,769	120,796
1910.......	3,036,757	61a	41	58	49,782	71,067	52,375
1911.......	1,694,564	7	32	45	242,080	52,955	37,658
1912.......	3,446,349	21	38	58	164,111	90,693	59,419
1913.......	4,306,346	28	60	83	152,789	71,772	51,883
1914.......	3,821,739	209b	44	50	18,286	86,857	76,434
1915.......	3,434,891	18	33	33	190,827	104,087	104,087
1916.......	4,648,604	20	51	34	232,430	91,149	136,723
1917.......	4,863,414	24	62	39	202,642	78,442	124,703
1918.......	6,148,620	22	60	77	279,483	102,477	79,860
1919.......	5,022,412	21	56	54	239,162	89,685	93,008
1920.......	6,908,923	29	53	38	238,733	130,371	181,814
1921.......	5,937,195	21	64	25	282,721	92,769	237,488
1922.......	5,976,432	35	38	35	170,755	157,274	170,755
1923.......	6,866,923	22	44	10	312,133	156,066	686,692
1924.......	5,203,713	21	42	40	247,796	123,898	130,093
1925.......	5,883,394	30	59	56	196,113	99,718	105,060
1926.......	6,508,908	39c	67	119	166,398	97,148	54,696
1927.......	6,936,780	26	76	115	266,799	91,273	60,320
1928.......	7,334,179	28	71	122	261,935	103,298	60,166
1929.......	7,147,250	31	69	98	230,556	103,583	72,931
1930.......	5,755,911	11	69	97	523,265	83,419	59,339
1931.......	4,563,309	16	75	73	285,207	60,844	62,511
1932.......	4,867,984	11	61	96	442,544	79,803	50,708
1933.......	4,714,784	6	60	109	785,797	78,580	43,255
1934.......	4,748,848	15	68	70	316,589	69,836	67,840
1935.......	5,462,973	35d	66	113	156,085	82,772	48,352
1936.......	5,696,375	11	79	101	517,852	72,106	56,400
1937.......	5,551,682	20	72	73	277,584	77,107	76,050
1938.......	5,230,015	21e	72	135	249,040	72,639	38,741
1939.......	5,518,105	17	57	180	324,594	96,809	30,657
1940.......	6,205,088	13	79	97	477,314	78,545	63,970
1941.......	6,970,064	48f	78	142	145,209	89,360	49,084
1942.......	7,754,279	17	92	148	456,134	84,285	52,393
1943.......	7,677,982	25g	73	152	307,119	105,178	50,513
1944.......	7,427,433	10	70	125	742,743	106,106	59,419
1945.......	7,801,248	23h	51	168	339,185	154,925	46,436
1946.......	8,824,455	12	76	128	735,371	116,111	68,941
1947.......	8,074,596	15	121	117	538,306	66,732	69,014
1948.......	8,111,013	13	91	93	623,924	89,132	87,215
1949.......	8,616,983	13	89	108	662,076	96,708	79,694
1950.......	8,118,206	20i	86	97	405,910	94,398	83,693
1951.......	7,661,276	9	85	53	851,253	90,133	144,552
1952.......	7,194,472	7	79	79	1,027,782	91,069	91,069
1953.......	5,917,423	10j	59	60	591,742	100,295	98,623
Total......	270,830,971	1160	2977	3922	233,484	90,641	69,054

a. Including thirty-one deaths caused by the Bellevue Explosion.

b. Including one hundred and eighty-nine deaths caused by the Hillcrest Explosion.

c. Including ten deaths caused by the McGillivray Creek Coal & Coke Co. Ltd. Explosion. and two deaths caused by explosion at the Hillcrest Collieries Ltd. at Hillcrest.

d. Including sixteen deaths caused by the explosion at Lethbridge Colls Ltd. at Coalhurst.

e. Including five deaths caused by the explosion at Hinton Collieries Ltd.

f. Including four deaths caused by an explosion at North American Colls. Ltd. Western Crown Mine, and twenty-nine deaths caused by an explosion at Brazeau Colls. Ltd. Nordegg.

g. Including four deaths caused by an explosion at the Kerralta Coal Co. Ltd., Lethbridge.

h. Including seven deaths caused by an explosion at Luscar Coals Ltd., Luscar.

i. Including five deaths caused by inundation of water at the Cadomin Coal Co. Ltd. Cadomin, and two deaths caused by "bump" at the McGillivray Creek Coal and Coke Co. Ltd., Coleman.

j. Including five deaths caused by "bump" at Coleman Collieries Ltd. (McGillivray Mine), Coleman.

ACCIDENTS DURING 1953, CLASSIFIED ACCORDING TO THE COAL FIELDS IN WHICH THEY OCCURRED

Field	Output	Accidents			Tons of coal mined per accident		
		Fatal	Serious	Slight	Fatal	Serious	Slight
Bituminous.............	3,517,499	8	39	41	439,687	90,192	85,792
Sub-Bituminous	2,399,924	2	20	19	1,199,962	119,996	126,312
Total..................	5,917,423	10	59	60	591,742	100,295	98,623

COMPARISON OF PROTECTIVE CLOTHING USED FOR THE YEARS 1951, 1952 AND 1953

	1951	1952	1953
Hard Hats	4,668	5,095	3,737
Safety Shoes, pairs	3,517	3,354	2,785
Goggles, pairs	552	385	396
Knee Pads, pairs............................	254	148	153

Comparison of Accidents per 1,000,000 tons and per 1,000 men employed, 1915-1953.

Year	Tonnage	Total No. of men employed	Fatal Accidents			Serious Accidents			Slight Accidents			Total		
			No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed	No.	Per 1,000,000 tons	Per 1,000 men employed
1915	3,434,891	6,445	18	5.24	2.79	33	9.63	5.12	33	9.63	5.12	84	24.45	13.03
1916	4,538,604	7,570	20	4.31	2.64	51	10.99	6.74	34	7.33	4.49	105	22.61	13.87
1917	4,863,414	8,310	24	4.93	2.88	62	12.75	7.46	39	8.02	4.69	125	25.91	15.04
1918	6,148,620	8,818	22	3.57	2.51	60	9.95	6.84	77	12.52	7.78	159	25.85	18.12
1919	5,022,412	7,573	21	4.18	2.78	56	11.15	7.39	54	10.75	7.13	131	26.28	17.30
1920	6,908,923	9,688	29	4.20	2.99	53	7.81	6.10	38	5.50	4.37	120	17.37	13.81
1921	5,927,195	10,018	21	3.54	2.10	64	10.78	6.39	25	4.23	2.50	110	18.53	10.99
1922	5,976,432	8,747	35	5.86	4.09	38	6.36	4.45	35	5.86	4.09	108	18.07	12.64
1923	6,866,923	9,927	22	3.19	2.21	44	6.39	4.43	10	1.45	1,00	76	11.07	7.65
1924	5,203,713	7,317	21	4.03	2.86	42	8.07	5.74	40	7.68	5.47	103	19.79	14.35
1925	5,883,394	8,774	30	5.10	3.40	59	10.03	3.42	56	9.52	6.38	145	24.65	16.53
1926	6,508,908	8,763	39c	5.99	4.99	67	10.29	7.65	119	10.33	13.58	225	34.57	25.68
1927	6,936,780	9,016	26	2.88	2.88	76	10.96	8.43	115	16.50	12.71	217	31.28	24.06
1928	7,334,179	9,496	28	2.96	2.96	71	9.68	7.48	122	13.63	12.85	221	30.12	23.27
1929	7,147,250	9,572	31	3.24	3.24	69	9.65	7.21	98	12.71	10.24	198	27.70	20.30
1930	5,755,911	8,889	11	1.91	1.24	69	11.99	7.76	97	17.20	10.90	177	30.75	19.91
1931	4,563,309	8,070	16	3.51	1.98	75	16.44	9.27	73	16.00	9.04	164	35.92	20.32
1932	4,867,984	7,837	11	2.26	1.40	61	12.53	7.78	96	19.72	12.23	168	34.51	21.43
1933	4,714,784x	8,042	6	1.27	.75	60	12.73	7.46	109	20.99	13.55	175	37.12	21.76
1934	4,748,848x	7,863	15	3.14	1.91	68	14.31	8.65	70	14.74	8.90	153	32.21	19.45
1935	5,462,973x	7,800	35d	6.40	4.47	66	12.08	8.44	113	20.68	14.44	214	39.17	27.35
1936	5,696,375x	8,110	11	1.93	1.36	79	13.87	9.74	101	17.73	12.45	191	33.53	23.55
1937	5,551,682x	7,836	20	3.60	2.55	72	12.97	9.19	73	13.15	9.32	165	29.72	21.06
1938	5,230,015x	7,411	21e	4.01	2.83	72	13.76	9.71	135	25.81	18.21	228	43.59	30.76
1939	5,518,105x	7,456	17	3.08	2.27	57	10.33	7.64	180	32.60	24.14	254	46.03	34.06
1940	6,205,088x	7,416	13	2.10	1.76	79	12.73	10.65	97	15.63	13.08	189	30.46	25.48
1941	6,970,064x	7,714	48f	6.80	6.22	78	11.19	10.11	142	20.37	18.41	268	38.73	34.74
1942	7,754,279x	8,040	17	2.19	2.11	92	11.86	11.44	148	19.09	18.40	257	33.14	31.95
1943	7,677,982x	8,636	25g	3.26	2.87	73	9.51	8.45	152	19.80	17.60	250	32.56	28.95
1944	7,427,433x	8,375	10	1.34	1.19	70	9.42	8.35	125	16.83	14.92	205	27.60	24.47
1945	7,801,248x	8,309	23h	2.93	2.76	51	6.53	6.13	168	21.53	20.24	243	31.02	29.12

1946	8,824,455x	8,583	12	1.36	1.39	76	8,61	8.85	128	14.50	14.91	216	24.47	25.16
1947	8,074,596x	8,772	15	1.86	1.71	121	14.98	13.79	117	14.49	13.33	253	31.33	28.84
1948	8,111,013x	8,865	13	1.60	1.47	91	11.22	10.27	93	11.47	10.49	197	24.29	22.22
1949	8,616,983x	8,682	13	1.51	1.50	89	10.33	10.25	108	12.53	12.44	210	24.37	24.19
1950	8,118,206x	7,999	20i	2.46	2.50	86	10.59	10.75	97	11.95	12.13	203	25.01	25.38
1951	7,661,276x	7,339	9	1.17	1.23	85	11.09	11.58	53	6.92	7.22	147	19.19	20.03
1952	7,194,472x	6,936	7	.97	1.01	79	10.98	11.39	79	10.98	11.39	165	22.93	23.79
1953	5,917,423x	5,760	10j	1.69	1.74	59	9.97	10.24	60	10.14	10.42	129	21.80	22.40

c. Including 10 deaths by explosion at McGillivray Creek Coal & Coke Ltd., Coleman.

d. Including 16 deaths by explosion at Lethbridge Collieries Ltd., Coalhurst.

e. Including 5 deaths by explosion at Hinton Collieries Ltd., Hinton.

f. Including 4 deaths by explosion at North American Collieries Ltd., East Coulee, and 29 deaths by explosion at Brazeau Collieries Ltd., Nordegg.

g. Including 4 deaths caused by explosion at the Kerralta Coal Co. Ltd., Lethbridge.

h. Including 7 deaths caused by explosion at the Luscar Coals Ltd., Luscar.

i. Including 5 deaths caused by inundation of water at the Cadomin Coal Co. Ltd., Cadomin, and 2 deaths caused by "bump" at the McGillivray Creek Coal & Coke Co. Ltd., Coleman.

j. Including 5 deaths caused by "bump" at the Coleman Collieries Ltd., (McGillivray Mine) Coleman.

x Output does not include coal produced by farmers under permit.

Number of tons produced per accident:

BITUMINOUS COAL FIELD

Area	Output	Average No. of men employed	No. of tons produced per accident			
			Fatal	Serious	Slight	Total
Group 1:						
Cascade	238,608	311	....	119,304	238,608	79,536
Nordegg	275,800	364	....	45,966	275,800	39,400
Group 2:						
Crowsnest	1,697,581	1894	282,930	89,346	99,857	40,418
Mountain Park	482,681	235	241,340	241,340	482,681	96,536
Group 3:						
Coalspur	636,086	656	....	106,014	31,804	24,465
Halcourt	128	2	....	....	....	....
Lethbridge	163,392	414	....	40,848	163,392	32,678
Pekisko	6,612	7	....	....	....	....
Pincher	86	3	....	....	....	....
Prairie Creek	1,102	5	....	....	....	....
Saunders	15,323	50	....	....	....	....
Total	3,517,499	3941	439,687	90,192	85,793	39,972

SUB-BITUMINOUS COAL FIELD

Area	Output	Average No. of men employed	Fatal	Serious	Slight	Total
Group 4:						
Ardley	46,847	17	....	46,847	....	46,847
Big Valley	1,973	5	....	....	....	....
Brooks	48,699	32	....	....	....	....
Carbon	40,507	45	....	....	....	....
Champion	5,679	10	....	....	....	....
Drumheller	1,028,067	1233	514,034	64,254	54,109	27,786
Edmonton	233,061	154	....	233,061	....	233,061
Gleichen	9,303	22	....	....	....	....
Pembina	270,732	63	....	....	....	....
Taber	43,553	25	....	43,553	....	43,553
Wetaskiwin	220	3	....	....	....	....
Whitecourt	565	1	....	....	....	....
No Area	64	1	....	....	....	....
Group 5:						
Camrose	52,244	29	....	....	....	....
Castor	426,235	83	....	....	....	....
Pakowki	45	1	....	....	....	....
Redcliff	4,339	8	....	....	....	....
Sheerness	96,722	47	....	....	....	....
Tofield	80,719	32	....	80,719	....	80,719
Westlock	10,350	8	....	....	....	....
Total	2,399,924	1819	1,199,962	119,996	126,312	58,535

SUMMARY

Area	Output	Average No. of men employed	Fatal	Serious	Slight	Total
Bituminous	3,517,499	3941	439,687	90,192	85,793	39,972
Sub-bituminous	2,399,924	1819	1,199,962	119,996	126,312	58,535
Total	5,917,423	5760	591,742	100,295	98,623	45,871

Classification of Accidents according to output of mines which produced during the year 1953.

Accidents	Under 1,000 tons	1,000 to 5,000 tons	5,000 to 10,000 tons	10,000 to 50,000 tons	50,000 to 100,000 tons	100,000 to 150,000 tons	150,000 to 200,000 tons	200,000 to 300,000 tons	Over 300,000 tons	Total
Fatal......................	...	...	...	...	...	1	1	5	3	10
Serious....................	...	1	2	3	12	6	5	18	12	59
Slight.....................	...	...	...	...	11	13	3	25	8	60
Total	...	1	2	3	23	20	9	48	23	129

Tons of Coal produced per accident;

Fatal......................	...	...	...	...	...	800,848	155,265	384,723	542,571	591,742
Serious....................	...	84,015	113,868	111,850	70,519	133,475	31,053	106,868	135,643	100,295
Slight.....................	...	...	...	...	76,930	61,604	51,755	76,945	203,464	98,624
Total	...	84,015	113,868	111,850	36,792	40,042	17,252	40,075	70,770	45,871

FATAL ACCIDENTS

M. Kolibas, Miner, 51, on January 20th, at the mine operated by Coleman Collieries Limited (McGillivray Creek Mine), Coleman. While working at face of 18 Pillar 101 N.E., sudden release of roof pressure caused floor to be thrown up, causing fatal injuries.

F. Grigel, Miner, 45, on January 20th, at the mine operated by Coleman Collieries Ltd., (McGillivray Creek Mine), Coleman. While working at face of 17 Pillar, 101 N.E., sudden release of roof pressure caused floor to be thrown up, causing fatal injuries.

J. Zembjok, Miner, 49, on January 20th, at the mine operated by Coleman Collieries Ltd., (McGillivray Creek Mine), Coleman. While working at face of 17 Pillar, 101 N.E., sudden release of roof pressure caused floor to be thrown up, causing fatal injuries.

William Kaklin, Miner, 31, on May 6th, at the mine operated by Coleman Collieries Ltd., (McGillivray Creek Mine), Coleman. Sudden pressure release caused fall of rock in 16 Pillar, 101 N.E., causing fatal injuries.

John Powlyk, Miner, 37, on May 6th, at the mine operated by Coleman Collieries Ltd., (McGillivray Creek Mine), Coleman. Sudden pressure release caused fall of rock in 16 Pillar 101 N.E., causing fatal injuries.

Cyril Oliphant, Master mechanic, 41, on June 25th, at the mine operated by Century Coals Ltd., (Commander Mine), Drumheller. While loading ashes on truck with caterpillar tractor and loader, the ash bank slid away, causing him to be trapped in cab of tractor, resulting in severe burns to body, face and hands, the effects from which he died on July 4th.

Raymond Kiemelle, Truck driver, 24, on December 1st, at the mine operated by Coleman Collieries Ltd., (Tent Mountain Strip Mine), Coleman. Backed truck over rock dump at No. 1 Pit, causing fractured skull, the effects from which he died on December 6th.

Alfred Andrew, Examiner, 57, on December 7th, at the mine operated by Century Coals Ltd., (Atlas Mine), East Coulee. Workman was squeezed against a ventilation door on 8 Butt, 12 West Entry by trip of cars, causing fatal injuries.

Nick Haggblad, Driller, 64, on December 17th, at the mine operated by Luscar Coals Limited, Luscar. Cave of North wall at East half of No. 1 Pit, buried him, causing fatal injuries.

Axel Mordeen, Driller, 48, on December 17th, at the mine operated by Luscar Coals Limited, Luscar. Cave of North wall at No. 1 Pit, buried him, causing fatal injuries.

ACCIDENTS AS THEY OCCURRED BY MONTHS DURING THE YEAR 1953

Months	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
January	...	3	2	5	3	4	8	15	20
February	...	...	2	2	...	1	2	3	5
March	...	1	4	5	...	3	4	7	12
April	...	...	...	...	...	5	2	7	7
May	...	4	...	4	2	4	3	9	13
June	1	...	1	2	...	6	4	10	12
July	...	1	...	1	...	4	2	6	7
August	...	1	...	1	...	4	2	6	7
September	...	...	1	1	...	1	2	3	4
October	...	3	...	3	...	2	5	7	10
November	...	...	2	2	...	3	5	8	10
December	3	1	...	4	1	8	9	18	22
Total	4	14	12	30	6	45	48	99	129

ACCIDENTS OCCURRING IN THE PROVINCE ABOVE AND BELOW GROUND
DURING THE YEAR 1953:

Causes	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Bumps	...	...	...	...	5	...	...	5	5
Coal-cutting machinery	...	...	...	...	...	3	4	7	7
Chute loading	...	...	...	...	...	1	3	4	4
Coupling cars	...	2	...	2	...	1	5	6	8
Electricity	...	...	...	...	...	...	1	1	1
Explosives	...	1	...	1	...	...	...	...	1
Fall of coal	...	...	...	...	...	7	5	12	12
Fall of rock	...	...	...	...	...	9	7	16	16
Haulage	...	1	...	1	1	16	2	19	20
Loading coal	...	...	...	...	...	...	5	5	5
Miscellaneous	1	7	11	19	...	8	10	18	37
Spragging cars	...	...	...	...	...	...	1	1	1
Strip Mining	3	3	...	6	...	...	...	...	6
Timbering	...	...	...	...	...	...	5	5	5
Tipple machinery	...	...	1	1	...	...	...	...	1
Total	4	14	12	30	6	45	48	99	129

Accidents occurring in the Province above and below ground for the year 1953, classified according to the area in which they occurred:

BITUMINOUS

Areas	Above Ground				Below Ground				Total Above and Below Ground
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Cascade	...	1	...	1	...	1	1	2	3
Nordegg	...	1	...	1	...	5	1	6	7
Crowsnest	1	4	6	11	5	15	11	31	42
Mountain Park	2	2	1	5	...	...	...	...	5
Coalspur	...	1	5	6	...	5	15	20	26
Lethbridge	...	2	...	2	...	2	1	3	5
Total	3	11	12	26	5	28	29	62	88

SUB-BITUMINOUS

Ardley	...	1	...	1	...	...	...	...	1
Drumheller	1	1	...	2	1	15	19	35	37
Edmonton	...	...	...	...	...	1	...	1	1
Taber	...	...	...	...	...	1	...	1	1
Tofield	...	1	...	1	...	...	...	...	1
Total	1	3	...	4	1	17	19	37	41

Classification of Accidents according to the Coal Fields in which they Occurred:

BITUMINOUS

Causes	Above Ground				Below Ground				Total Above and Below Ground/
	Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Rope Haulage, dragged by rope	...	...	...	...	...	1	...	1	1
Rope Haulage, caught finger between post and car	...	...	...	...	...	...	1	1	1
Rope Haulage, struck by car	...	...	...	...	...	1	...	1	1
Horse Haulage, hit by car	...	...	...	...	...	2	...	2	2
Hand Haulage, squeezed between cars	...	...	...	...	...	1	...	1	1
Locomotive Haulage, squeezed between cars	...	1	...	1	...	2	...	2	3
Locomotive Haulage, hit by car	...	...	...	...	...	1	...	1	1
Locomotive Haulage, caught between timber and locomotive	...	...	...	...	...	1	...	1	1
Locomotive Haulage, caught head between door frame and motor	...	...	...	...	...	1	...	1	1
Fall of rock in entry	...	...	...	...	...	3	...	3	3
Fall of rock in room	...	...	...	...	...	3	3	6	6
Fall of rock in pillar	...	...	...	...	...	...	1	1	1
Fall of coal in entry	...	...	...	...	...	2	2	4	4
Fall of coal in room	...	...	...	...	...	2	...	2	2
Fall of coal in pillar	...	...	...	...	...	1	...	1	1
Loading coal, squeezed hand between lumps	...	...	...	...	...	...	1	1	1
Bumps	...	...	...	...	5	...	...	5	5
Strip Mining, caught hand in drill	...	1	...	1	...	...	...	...	1
Strip Mining, backed truck over dump	1	...	...	1	...	...	...	...	1
Strip Mining, acid burns to face	...	1	...	1	...	...	...	...	1
Strip Mining, wall caved	2	...	...	2	...	...	...	...	2
Tipple Machinery, caught finger between lumps of coal	...	...	1	1	...	...	...	...	1
Timbering, squeezed finger between timbers	...	...	...	...	...	...	1	1	1
Timbering, hit with hammer	...	...	...	...	...	...	1	1	1
Timbering, caught hand against wing board	...	...	...	...	...	...	1	1	1
Coal-cutting Machinery, bar slipped and hit him	...	...	...	...	...	...	1	1	1
Coal-cutting Machinery, valve blew off machine struck nose	...	...	...	...	...	...	1	1	1
Coal-cutting Machinery, slipped and fell	...	...	...	...	...	1	...	1	1

BITUMINOUS (Cont'd)

Explosives, hit by flying rock	...	1	...	1	...	...	...	...	1
Coupling Cars, caught between cars	...	1	...	1	...	1	2	3	4
Chute Loading, struck door	...	...	...	...	...	...	1	1	1
Chute Loading, hit by coal	...	...	...	...	...	1	2	3	3
Electricity, burned arm	...	...	...	...	...	...	1	1	1
Miscellaneous, slipped and fell	...	2	1	3	...	2	5	7	10
Miscellaneous, injured while timbering	...	...	...	...	...	2	...	2	2
Miscellaneous, horse stepped on foot	...	...	...	...	...	...	1	1	1
Miscellaneous, hit foot with hammer	...	...	...	...	...	...	1	1	1
Miscellaneous, steel beam fell on foot	...	...	2	2	...	...	...	...	2
Miscellaneous, cleaning conveyor, caught finger between roller and chain	...	...	1	1	...	...	...	...	1
Miscellaneous, timber fell on him	...	1	...	1	...	...	2	2	3
Miscellaneous, piece of coal rolled on foot	...	...	1	1	...	...	...	...	1
Miscellaneous, grinding wheel burst and hit finger	...	...	1	1	...	...	...	...	1
Miscellaneous, burned hand	...	1	...	1	...	...	...	...	1
Miscellaneous, hand squeezed between jack and casing	...	...	1	1	...	...	...	...	1
Miscellaneous, cable hit finger	...	1	...	1	...	...	...	...	1
Miscellaneous, tractor clutch hit finger	...	...	1	1	...	...	...	...	1
Miscellaneous, injured arm while shovelling coal into boiler	...	...	1	1	...	...	...	...	1
Miscellaneous, bar hit him	...	1	...	1	...	...	...	...	1
Miscellaneous, air hose hit him	...	...	...	...	...	...	1	1	1
Miscellaneous, hit knee on car	...	...	1	1	...	...	...	...	1
Miscellaneous, caught finger in power saw	...	...	1	1	...	...	...	...	1
Total	3	11	12	26	5	28	29	62	88

SUB-BITUMINOUS

Horse Haulage, car ran over him	...	...	...	...	...	1	...	1	1
Horse Haulage, caught finger in tail chain	...	...	...	...	...	...	1	1	1
Horse Haulage, derailed car hit him	...	...	...	...	...	1	...	1	1
Hand Haulage, caught foot in switch	...	...	...	...	...	1	...	1	1
Locomotive Haulage, squeezed between locomotive and car	...	...	...	...	...	1	...	1	1
Locomotive Haulage, motor dropped on hand	...	...	...	...	...	1	...	1	1
Locomotive Haulage, squeezed between car and door	...	...	...	...	1	...	...	1	1
Locomotive Haulage, fell off locomotive	...	...	...	...	...	1	...	1	1
Fall of rock in entry	...	...	...	...	...	1	1	2	2
Fall of rock in room	...	...	...	...	...	2	2	4	4
Fall of coal in entry	...	...	...	...	...	2	...	2	2
Fall of coal in room	...	...	...	...	...	...	3	3	3
Loading Coal, squeezed finger between lumps	...	...	...	...	...	...	2	2	2
Loading Coal, injured while lifting lump	...	...	...	...	...	...	1	1	1
Loading Coal, squeezed between coal and car	...	...	...	...	...	...	1	1	1
Strip Mining, caught arm in machinery	...	1	...	1	...	...	...	...	1
Timbering, prop fell on him	...	...	...	...	...	...	2	2	2
Coal-cutting Machinery, jack fell on him	...	...	...	...	...	...	2	2	2
Coal-cutting Machinery, foot caught in cutter chain	...	...	...	...	...	1	...	1	1
Coal-cutting Machinery, bar hit him	...	...	...	...	...	1	...	1	1
Coupling Cars, squeezed between cars	...	1	...	1	...	...	3	3	4
Spragging Cars, caught finger between sprag and wheel	...	...	...	...	...	...	1	1	1
Miscellaneous, repairing machinery which fell on him	...	1	...	1	...	...	...	...	1
Miscellaneous, timber fell on him	...	...	...	...	...	2	...	2	2
Miscellaneous, squeezed between car and fan	...	...	...	...	...	1	...	1	1
Miscellaneous, injured while operating tractor	1	...	...	1	...	...	...	...	1
Miscellaneous, slipped and fell	...	...	...	...	...	1	...	1	1
Total	1	3	...	4	1	17	19	37	41

SUMMARY

Bituminous	3	11	12	26	5	28	29	62	88
Sub-bituminous	1	3	...	4	1	17	19	37	41
Total	4	14	12	30	6	45	48	99	129

Accidents during 1953, **classified** according to the Mines in which they Occurred:

BITUMINOUS

Name of Operator	Area	Above Ground				Below Ground				Total Above and Below Ground
		Fatal	Serious	Slight	Total	Fatal	Serious	Slight	Total	
Brazeau Collieries Ltd.	Nordegg	...	1	...	1	...	5	1	6	7
Bryan Mountain Coal Co. Ltd.	Coalspur	...	...	...	...	...	2	4	6	6
Canadian Collieries (Dunsmuir) Ltd. (771)	Coalspur	...	...	1	1	...	1	2	3	4
Canadian Collieries (Dunsmuir) Ltd. (846)	Coalspur	...	...	4	4	...	2	9	11	15
Canmore Mines Limited	Cascade	...	1	...	1	...	1	1	2	3
Coleman Collieries Ltd. (88)	Crowsnest	...	...	2	2	...	2	4	6	8
Coleman Collieries Ltd. (204)	Crowsnest	...	...	1	1	5	5	3	13	14
Coleman Collieries Ltd. (1695)	Crowsnest	1	2	...	3	...	...	...	...	3
Lethbridge Collieries Ltd. (1263)	Lethbridge	...	...	...	...	...	2	...	2	2
Lethbridge Collieries Ltd. (1464)	Lethbridge	...	2	...	2	...	...	1	1	3
Luscar Coals Ltd.	Mountain Park	2	2	1	5	...	...	...	...	5
Sterling Coal Valley Mining Co. Ltd. (1002)	Coalspur	...	1	...	1	...	...	...	...	1
West Canadian Collieries Ltd. (87)	Crowsnest	...	...	...	...	...	2	1	3	3
West Canadian Collieries Ltd. (396)	Crowsnest	...	2	3	5	...	4	3	7	12
West Canadian Collieries Ltd. (1584)	Crowsnest	...	...	...	...	...	2	...	2	2
Total	....	3	11	12	26	5	28	29	62	88

SUB-BITUMINOUS

Brilliant Coal Co. Ltd.	Drumheller	...	...	...	...	...	2	...	2	2
Century Coals Ltd. (422)	Drumheller	1	...	...	1	...	2	8	10	11
Century Coals Ltd. (1484)	Drumheller	...	...	...	...	1	...	...	1	1
Emil Skarin	Tofield	...	1	...	1	...	...	...	...	1
John Lynass (1734)	Ardley	...	1	...	1	...	...	...	...	1
O.J. Malo	Taber	...	...	...	...	...	1	...	1	1
Midland Coal Mining Co.Ltd	Drumheller	...	...	...	...	...	2	...	2	2
Monarch Coal Mining Co.Ltd	Drumheller	...	...	...	...	...	2	1	3	3
Morinville Collieries Ltd	Edmonton	...	...	...	...	...	1	...	1	1
Red Deer Valley Coal Co. Ltd	Drumheller	...	1	...	1	...	4	3	7	8
Rosedale Collieries Ltd	Drumheller	...	...	...	...	...	2	4	6	6
Saskatchewan Federated Co-ops Ltd	Drumheller	...	...	...	...	...	1	3	4	4
Total		1	3	...	4	1	17	19	37	41

SUMMARY

Bituminous		3	11	12	26	5	28	29	62	88
Sub-bituminous		1	3	...	4	1	17	19	37	41
Total		4	14	12	30	6	45	48	99	129

LIST OF PROSECUTIONS INSTITUTED UNDER THE COAL MINES REGULATION ACT, FOR THE YEAR ENDING DECEMBER 31, 1953.

Mine in which Contravention was committed	Description of Defendent	Offence Charged	Result of Proceedings	Penalty	Costs
Lethbridge Collieries Ltd....	Miner........	Did fail to return explosives to proper place at end of shift....................	Convicted....	Fined $10.00.........	$2.00
Foothills Collieries Ltd.....	Miner........	Did perform the operation of undercutting the coal in a room, while the face was not securely supported by sprags, wedges or wooden props...........................	Convicted....	Fined $10.00.........	$5.75
Foothills Collieries Ltd.....	Examiner.....	Did fail to see that provisions of The Coal Mines Regulation Act were strictly observed and failed to report non-observance to the manager or overman immediately it came to his attention................	Convicted....	Fined $10.00.........	$5.50
Foothills Collieries Ltd.....	Miner........	Did perform the operation of undercutting the coal in a room, while the face was not securely supported by sprags, wedges or wooden props...........................	Convicted....	Fined $10.00.........	$5.75
Champion Coal Company........	Owner........	Did have underground more men than permitted by his authorization................	Convicted....	Fined $10.00.........	$2.50
Sterling-Coal Valley Colls...	Blaster......	Did fire a shot without first seeing that all persons were out of danger...........	Convicted....	Fined $30.00.........	$4.00
Canadian Collieries (Dunsmuir) Ltd.........................	C.N.R. Painter......	Did unlawfully enter a mine and mine building..................................	Convicted....	Fined $15.00.........	$2.00
Canadian Collieries (Dunsmuir) Ltd.........................	C.N.R. Painter......	Did enter a mine with a lamp or light other than an approved type safety lamp........	Convicted....	Fined $15.00.........	$2.00

Canadian Collieries (Dunsmuir) Ltd.	C.N.R. Painter	Did unlawfully enter a mine and mine building	Convicted	Fined $15.00	$2.00
Canadian Collieries (Dunsmuir) Ltd.	C.N.R. Painter	Did enter a mine with a lamp or light other than an approved type safety lamp	Convicted	Fined $15.00	$2.00
Bryan Mountain Coal Co. Ltd.	Manager	Did fail to keep man-hole clear of obstruction	Convicted	Fined $15.00	$2.00
Foothills Collieries Ltd.	Manager	Did fail to forward a monthly statement of production on or before the 15th day of the month for the preceding month	Convicted	Fined $20.00	$3.00
Canadian Collieries (Dunsmuir) Ltd.	Manager	Did fail to forward a monthly statement of production on or before the 15th day of the month for the preceding month	Convicted	Fined $20.00	$3.00
Dawn Coal Company	Owner	Did fail to forward a monthly statement of production on or before the 15th day of the month for the preceding month	Convicted	Fined $10.00	$4.50
Messrs. Anderson & Steffenson	Overman	Did fail to be in attendance at the mine as overman when same was in operation	Convicted	Fined $ 5.00	$2.50
Canmore Mines Ltd.	Haulageman	Did have in his possession lucifer matches and cigarettes	Convicted	Fined $15.00	$4.50

NUMBER OF MINES OPENED, RE-OPENED, CLOSED AND ABANDONED ACCORDING TO AREAS AND KIND OF COAL, DURING THE YEAR

Director of Mines - J.A. Dutton, Provincial Building,
Edmonton, Alberta. Telephone 22698

Assistant Director of Mines - -J. Horne, Provincial Building,
Edmonton, Alberta. Telephone 22889

Electrical Inspector of Mines - Burton Tait, Provincial Building,
Edmonton, Alberta. Telephone 28614

Inspection District	Area	Area Number	Character of coal	No. of Mines in operation at Dec. 31/53	No. of Mines opened during the year	No. of Mines re-opened during the year	No. of Mines closed during the year	No. of Mines abandoned during the year	Name and Address of District Inspectors of Mines
Blairmore	Crowsnest	12-13	Bituminous	6	1	...	...	...	P. Melson,
	Oldman	26	Bituminous	...	1	...	...	...	Blairmore, Alberta.
	Pincher	32	Bituminous	...	...	2	2	...	Telephone 2160
Calgary	Big Valley	2	Sub-Bituminous	1	...	...	1	...	A. Muir,
	Carbon	6	Sub-Bituminous	10	...	6	6	2	Provincial Bldg.,
	Cascade	7	Bituminous	1	...	...	1	...	Calgary, Alberta.
	Gleichen	17	Sub-Bituminous	3	...	1	1	...	Telephone 28584
	Pekisko	30	Bituminous	1	...	...	...	...	
	Red Deer	22-B	Bituminous	...	...	...	...	1	
Drumheller	Big Valley	2	Sub-Bituminous	1	...	...	...	...	R. Shaw,
	Carbon	6	Sub-Bituminous	...	...	...	...	...	Drumheller, Alberta.
	Drumheller	14	Sub-Bituminous	17	...	8	8	...	Telephone 2413
	Sheerness	38	Sub-Bituminous	3	1	3	3	1	
Edmonton	Ardley	1	Sub-Bituminous	3	1	3	4	3	J. Thomson,
	Camrose	5	Sub-Bituminous	5	...	3	3	...	Provincial Bldg.,
	Castor	8	Sub-Bituminous	14	...	12	15	3	Edmonton, Alberta.
	Edmonton	15	Sub-Bituminous	15	...	4	4	1	Telephone 28612
	Halcourt	18	Bituminous	...	...	1	2	...	
	Nordegg	25	Bituminous	1	...	...	...	...	
	Pembina	31	Sub-Bituminous	3	...	2	2	1	
	Saunders	36	Bituminous	1	...	...	...	...	
	Slave	38	Sub-Bituminous	...	...	...	...	1	
	Tofield	42	Sub-Bituminous	5	...	2	2	...	
	Westlock	45	Sub-Bituminous	3	...	2	2	...	
	Wetaskiwin	46	Sub-Bituminous	...	...	...	1	...	
	No Area	..	Bituminous	...	...	...	...	...	
Edson	Coalspur	11	Bituminous	4	...	...	...	...	A. L. Lister,
	Mountain Park	24	Bituminous	1	...	...	...	1	Edson, Alberta.
	Pembina	31	Sub-Bituminous	3	...	2	3	2	Telephone 35R3
	Prairie Creek	33	Bituminous	1	...	1	1	1	
	Whitecourt	47	Sub-Bituminous	2	...	2	1	...	
	No Area	..	Sub-Bituminous	1	1	...	...	...	
Lethbridge	Brooks	3	Sub-Bituminous	2	...	2	2	...	J.D.B. Brown,
	Champion	9	Sub-Bituminous	2	...	...	1	1	Lethbridge, Alberta.
	Crowsnest	12-13	Bituminous	2	...	...	...	...	Telephone 3325
	Lethbridge	20	Bituminous	7	...	2	2	...	
	Milk River	22	Sub-Bituminous	...	...	...	1	1	
	Pakowki	28	Sub-Bituminous	...	...	1	1	...	
	Redcliff	34	Sub-Bituminous	1	...	...	...	...	
	Taber	41	Sub-Bituminous	4	...	4	4	...	
	Total........	..	....	123	5	63	73	19	

NOTE: 11 mines reported as being closed as at December 31st, 1952 were abandoned in 1953.

BOARD OF EXAMINERS

The Central Board of Examiners during the year 1953 consisted of the following:—

As representing:

The Mine Inspectorate: J. A. Dutton, Director of Mines.
Managers: P. M. Ramsay and A. Crawford.
Working Miners: D. J. Holly and A. Ragon.
Secretary: Muriel Roberts.

Examinations were held as follows:

For First and Second Class at the following centres: Calgary and Edmonton; on June 3rd, 4th and 5th.

For Third Class at the following centres: Blairmore, Cadomin, Drumheller, Edmonton and Lethbridge, on May 26th.

For Mine Surveyor at the following centres: Calgary and Edmonton, and June 5th.

For Mine Electrician at the following centres: Cadomin, Drumheller, Edmonton and Lethbridge, on May 26th.

Seven candidates presented themselves for examination for First Class Certificates, of whom three were successful.

Two candidates presented themselves for examination for Second Class Certificates, both of whom were successful.

Fifteen candidates presented themselves for examination for Third Class Certificates, of whom nine were successful.

Six candidates presented themselves for examination for Mine Surveyors' Certificates, of whom four were successful.

Eight candidates presented themselves for examination for Mine Electricians' Certificates, six for First Class, of whom four were successful, and two for Second Class, neither of whom were successful.

The list following herewith gives names of successful candidates for all classes of certificates during 1953.

LIST OF NAMES OF HOLDERS OF FIRST, SECOND AND THIRD CLASS, MINE SURVEYORS' AND MINE ELECTRICIANS' CERTIFICATES.

Issued by the Government of the Province of Alberta during the year 1953.

FIRST CLASS

Name	Address	Cert. No.	Date of Certificate
Lagunoff, Victor	Elsa, Y.T.	19	11-7-53
Louhela, Sulo	Canmore	18	11-7-53
Stratton, Robert	East Coulee	20	11-7-53

SECOND CLASS

Kozmeniuk, Steve	Edmonton	28	11-7-53
Leitch, Andrew S.	Edmonton	29	11-7-53

THIRD CLASS

Belik, Ernest	Coleman	108	11-7-53
Elick, John C.	Hillcrest	107	11-7-53
Fontana, Elmo J. P.	Champion	112	11-7-53
Funfer, John J.	Bellevue	109	11-7-53
Hungar, Godfrey	Bellevue	113	11-7-53
Kralik, Cyprin	Newcastle	111	11-7-53
Measor, George B.	Canmore	114	11-7-53
Milburn, Wilfred	Frank	115	11-7-53
Salus, Andrew P.	Coleman	110	11-7-53

MINE SURVEYOR

Belik, Ernest	Coleman	23	11-7-53
Burton, John T.	Rosedale	24	11-7-53
Smith, David	Robb	21	11-7-53
Zieffle, Gordon	Medicine Hat	22	11-7-53

FIRST CLASS MINE ELECTRICIAN

Belenky, William S.	Canmore	21	11-7-53
Carr, Gordon P.	Sheerness	22	11-7-53
Miller, William J.	Ryley (Duplicate)	19	6-7-53
*McBride, Roy F.	Halkirk	23	11-7-53
McLaughlin, Edward G.	Luscar	20	11-7-53
Wiens, William J.	Fernie (Duplicate)	18	9-2-53

* Certificate not issued as at December 31st, 1953.

STRIP MINE BOARD OF EXAMINERS

The Board of Examiners during the year 1953 consisted of the following:—

As representing:

The Mine Inspectorate: J. A. Dutton, Director of Mines.
Strip Mine Managers: G. A. Wiggan.
Strip Mine Workers: T. Talbot (Acting).
Secretary: Muriel Roberts.

Examinations during the year were held as follows:

For Strip Mine Managers at the following centres: Calgary and Edmonton, on June 5th.

For Foremen and Blasters at the following centres: Blairmore, Cadomin, Drumheller, Edmonton and Lethbridge, on May 26th, and at Blairmore on August 28th.

Four candidates presented themselves for examination for Strip Mine Managers' Certificates, of whom one was successful. In addition thereto, there were four Strip Mine Managers' Certificates issued without examination.

Seventeen candidates presented themselves for examination for Foremen's Certificates, of whom thirteen were successful.

Three candidates presented themselves for examination for Blasters' Certificates, all of whom were successful.

The list following herewith gives the names of successful candidates for all classes of certificates during 1953.

LIST OF HOLDERS OF STRIP MINE MANAGERS', FOREMEN'S AND BLASTERS' CERTIFICATES

Issued by the Government of the Province of Alberta during the year 1953

STRIP MINE MANAGER

Name	Address	Cert. No.	Date of Certificate
Diamond, Rene A.	Blairmore	77	27-6-53
Donaldson, Adam G.	Lethbridge	78	30-7-53
Gardner, Harold H.	Fernie, B.C.	74	2-3-53
Riva, Walter J.	Canmore	75	8-4-53
Tennant, Robert	Alexo	76	3-6-53

STRIP MINE FOREMAN

Budinski, Stanley	Robb	118	27-6-53
Deuchar, Walter D.	Delburne	125	27-6-53
Embree, Merton B.	Sheerness	121	27-6-53
Fridel, Stephen	Edmonton	124	27-6-53
Hewitt, Donald A.	Luscar	119	27-6-53
Hluska, Walter	Robb	117	27-6-53
Lamb, Charles W.	Sheerness	123	27-6-53
Mitchell, John C.	Luscar	115	27-6-53
Oliver, Edward	Rolling Hills	122	27-6-53
Paull, Stuart J.	Natal, B.C.	127	3-9-53
*Robins, Douglas F.	Robb	116	27-6-53
Sommerville, Alexander R.	Three Hills	126	27-6-53
Vitaly, Mike	Edmonton	120	27-6-53

STRIP MINE BLASTER

*Karlsen, Hjalmar	Coleman	26	27-6-53
McLaren, Ian A.	Foothills	24	27-6-53
Paull, Stuart J.	Natal, B.C.	25	27-6-53

*Certificate not issued as at December 31st, 1953.

THE QUARRIES REGULATION ACT

The Quarries Regulation Act was amended during the year 1953, to provide for the oral examination of persons performing blasting duties at quarrying operations. Examinations are conducted by the District Inspectors when sufficient candidates have applied.

Examinations were held on December 16th at Exshaw, when six candidates presented themselves, all of whom were successful.

LIST OF HOLDERS OF QUARRY BLASTERS' CERTIFICATES

Issued by the Government of the Province of Alberta during the year 1953.

Name	Address	Cert. No.	Date of Certificate
Callaway, Robert B.	Exshaw	2	21-12-53
Kwas, Nickola	Exshaw	6	21-12-53
McKenzie, John	Exshaw	3	21-12-53
Pinet, Jean P.	Exshaw	5	21-12-53
Smaniotto, Americo O.	Exshaw	4	21-12-53
Walker, Maurice W.	Exshaw	1	21-12-53

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 3, 4 and 5, 1953

FIRST CLASS CERTIFICATES

Marks obtainable 200
Paper No. 1

Marks required 120
Time—3½ hours.

THE COAL MINES REGULATION ACT

Values

1. What does Section 8a state regarding water from any mine, etc. constituting a source of danger? 20
2. What are the requirements of Section 20 in connection with the payment of wages? 24
3. State the requirements of Section 63 pertaining to shafts, mine equipment and provisions for mine outlets 26
4. What are the requirements of Section 80 in connection with reporting of accidents? 20
5. State what procedure is required under Section 102 regarding permit to commence mining operations 22
6. What are the requirements of Section 129 in connection with the withdrawal of workmen when conditions are found to be dangerous? 20
7. State fully the requirements under Section 136 pertaining to the running of mantrips. 16
8. What does Section 149, Rule 19 state in connection with safety lamps and their use and care? 18
9. What are the requirements necessary under Section 150 in connection with the appointment of officials? 14
10. Under Regulation 17 of the Regulations made pursuant to the above Act, state the requirements governing washhouses 20

FIRST CLASS CERTIFICATES

Marks obtainable 200
Paper No. 2.

Marks required 120
Time—3½ hours.

GASES, SHOT-FIRING AND SAFETY LAMPS

Values

1. Explain what is meant by a physical change and a chemical change. State examples of both physical and chemical changes that have come under your own observation 20
2. Describe the physiological properties of (a) firedamp (b) blackdamp (c) afterdamp, and state the treatment rendered to persons overcome by each gas 22
3. What will be the weights and volumes of the gases left after the complete combustion of 200 cubic feet of $CH4$, the volumes being measured at a temperature of 212 degrees Fahr. and a pressure of 30 inches of barometer, before and after combustion? 18
4. It is proposed to introduce diesel locomotives of 150 B.H.P. for hauling coal along a slightly inclined intake haulage road two miles long, and it is estimated that four of these locomotives may be operating in the roadway at the same time. What effect would you expect their working to have upon the state of ventilation of the mine? Give reasons for your answer. 24
5. Through the main return of a mine a volume of 60,000 cu. ft. of air per minute passes at a temperature of 60 degrees Fahr., and a barometer pressure of 30 inches. If the air contains 0.75 per cent $CH4$ and the output of the mine is 1,000 tons per day, find the weight of methane given off per ton of coal extracted. 20
6. (a) At what places in a district are accumulations of coal dust most likely to occur?
   (b) How would you deal with such accumulations? 18
7. (a) What procedure would you adopt in taking "representative samples" of coal or mine dust from a haulage road one mile in length?
   (b) State how you would take a sample of mine air from a return airway. 20
8. What is the essential difference in composition between a "high" and a "low" explosive respectively? How are mining explosives made to conform to the requirements of a "permitted explosive"? 20
9. (a) What is the principle embodied in flame type safety lamps?
   (b) Describe a simple experiment by which this principle may be demonstrated.
   (c) Describe the construction of the modern "Wolf" type flame safety lamp. 20
10. The gauge of a mine rescue apparatus reads a pressure of 120 atmospheres. If the cubical contents of the oxygen cylinder equals 175 cu. ins., how many cu. ft. of free oxygen have been contained within the cylinder? 18

FIRST CLASS CERTIFICATES

Marks obtainable 200 Marks required 120
Paper No. 3 Time—3½ hours.

THEORY AND PRACTICE OF VENTILATION

Values

1. Show by calculations how two formulas are derived for two types of regulators 20

2. Where must regulators be placed, and what must be their sizes to produce 50,000 cu. ft., 30,000 cu. ft. and 10,000 cu. ft. of air per minute respectively, if the dimensions of the splits are as follows:

A	6 ft. by 10 ft.	3,000 ft. long
B	5 ft. by 9 ft.	2,500 ft. long
C	5 ft. by 6 ft.	1,500 ft. long

What horsepower is required for this circulation? 24

3. Make a list of general rules or recommendations for good ventilation in coal mines. 20

4. Enumerate the factors which have a bearing on the cooling effect of the air passing along the working faces in a deep mine, and indicate the use of a Kata thermometer. 22

5. A high cave in an intake haulage road was repaired with cogs above the entry sets. A bleeder of gas has filled the cogged space, and gas is flowing into the roadway. Sketch and describe how you would remedy this with as little interference to haulage as possible. 12

6. 100,000 c.f.m. of mine air passes through a main roadway 10 ft. by 12 ft. and 1,500 ft. long, a slope 6 ft. by 12 ft. and 2,000 ft. long, two splits, one 8 ft. by 12 ft. and 6,000 ft. long and the other 8 ft. by 10 ft. and 4,000 ft. long, and returns up a slope 10 ft. by 10 ft. and 500 ft. long. Find the pressure of circulation. 24

7. (a) Calculate the natural water gauge of two shafts 18 ft. in diameter and 1,200 ft. deep. The average temperature of the downcast is 62 degrees Fahr. and the average temperature of the upcast is 76 degrees Fahr. Barometer on the surface is 30 inches.
(b) Calculate the quantity of the natural ventilation. 20

8. What is the modern trend in new fans for ventilating purposes in coal mines? Describe and list the advantages and disadvantages of these fans. 16

9. An exhaust fan on a shaft 800 ft. deep produces a quantity of 200,000 cu. ft. of air per minute at 2 inch water gauge when the outside temperature is 30 degrees Fahr. and the mine temperature is 60 degrees Fahr. Calculate what the volume and water gauge will be when the outside temperature is 70 degrees Fahr. and the mine temperature is 60 degrees Fahr. Barometer is 30 inches. 22

10. Neglecting friction, what would be the velocity of an air current, if the weight of one cu. ft. of air is 0.0807 lbs. and the water gauge reading is 1.75 inches? 20

FIRST CLASS CERTIFICATES

Marks obtainable 200 Marks required 120
Paper No. 4. Time—3½ hours.

PRACTICAL WORK, FIRST AID AND MINE RESCUE WORK

Values

1. A rectangular shaft, 12 ft. by 18 ft. is to be sunk, and the distance to bedrock is 80 ft. Commencing at the surface, the strata is as follows: Gravel 18 ft., Sand 21 ft., Clay and sand interstratified 30 ft. and Shales 11 ft. List the various systems used in sinking through ground of this nature and sketch and describe the method you would employ. 30

2. A bituminous seam 15 ft. in height on an inclination of 35 degrees has been opened up by driving a slope, and the first level has been turned off to give a lift of 600 ft. to the surface. The seam is subject to much squeeze and rooms have to be continuously brushed to keep them open. Sketch and describe the method you would propose to extract the coal from this area. 24

3. Sketch and describe how you would lay out the tracks at the top and bottom of a shaft to handle an output of 1,200 tons per eight-hour shift. The shaft is 300 ft. in depth and the coal comes to the shaft from three separate districts, and is handled by a rotary dump at the surface. 20

4. List the various methods in current use for the correlation of coal seams, and describe how they are applied. 18

5. A fire is burning in a mine and it has been decided to seal off the fire area. There are three seals to be constructed on the return side, and two on the intake side. Describe how you would organize and complete this work with the utmost safety and efficiency. 18

6. What are bumps, and in which areas in the Province do they most frequently occur? Describe the various methods that have been used to minimize the effects of bumps, and what can be done to prevent their occurrence. 20

7. A seam 8 ft. in height on an inclination of 10 degrees has been developed by a slope, and levels at intervals of 800 ft. have been turned off. There is a band of clod, or dirt 18 ins. thick in the centre of the seam. Describe two methods of working this seam, comparing them as to safety and efficiency. The roof consists of 3 ft. of poor shales, above which is a strong bed of sandstone. 26

8. Sketch and describe the various methods of supporting a roadway in a seam where roof and side pressure is excessive. Should the cost of such methods prove prohibitive, how else can access to the coal seams be maintained? 14

9. Describe fully the various methods of artificial respiration in use, and state under what circumstances each is performed. 10

10. Discuss suspension roof supports or roof bolting. Describe the various bolts used and how they are installed. Describe briefly how you would introduce this method of roof support in a mine of which you are in charge. 20

FIRST CLASS CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 5. — Time—3½ hours.

MACHINERY

Values

1. A complete winding cycle occupies 60 seconds, the winding taking 50 seconds and the changing period 10 seconds. If the acceleration is 5 ft. per second and retardation is 6 ft. per second, the former taking 12 seconds and the latter 10 seconds, find the maximum winding speed and the depth of the shaft. 20

2. State the conditions that must be fulfilled when starting up two A.C. generators in parallel, and show by means of a diagram the position of the various instruments you would use. 22

3. A load of 5 long tons is to be suspended by round mild steel rods that are to be connected by knuckle joints, each joint being secured by a single bolt. If the factor of safety is 8, and the shear stress is 0.8 of the tensile strength of mild steel find (a) the diameter of the rod and (b) the diameter of the bolt. Take the tensile stress of mild steel to be 60,000 lbs. per sq. in. 20

4. What condition of usage gives rise to the need of annealing lashing chains and cage chains? How and how often may they be annealed? What methods would you use to ensure that chains are sent for annealing on or before the last stipulated date? 22

5. What is meant by the terms Calorie, British Thermal Unit and Centigrade Heat Unit? Calculate the weight of coal having a Calorific value of 11,500 B.T.U. per lb. required to raise the temperature of 2,000 lbs. of water at 32 degrees Fahr. to 381.6 degrees Fahr. and convert it to steam at the higher temperature. Assume the efficiency of the boiler to be 0.5. 20

6. How may the supply of steam to the cylinders of a steam-driven hoisting engine be directed and controlled, and how can the direction of the engine be reversed? 22

7. Coal is to be raised from a shaft the depth of which is 800 yds., by means of a skip weighing 10 tons and carrying 8 tons of coal. Assuming the factor of safety may not be less than 8, what would be the diameter of a locked coil rope or a Lang lay rope suitable for the duty? 20

8. An underground pump discharges water at a velocity of 5 ft. per second through a vertical column of pipes 900 ft. high and 7 ins. in diameter. Calculate the friction head, the total head and the horse power of the motor required to drive the pump with an over-all efficiency of 0.7. The co-efficient of friction of the pipes may be assumed to be 0.01. 20

9. Describe a water tube boiler for an output of 20,000 lbs. per hour of steam. How is the brickwork arranged in the boiler setting and what kind of bricks should be used? 22

10. A three-phase motor works at 240 B.H.P. when supplied with electric current at 3,000 volts between phases. Its efficiency is 85 per cent and power factor 0.75. If the voltage at the generator terminals is 3,300 volts between phases, what is the output of the generator in kilowatts to supply the motor? 12

FIRST CLASS CERTIFICATES

Marks obtainable 200
Paper No. 6.

Marks required 120
Time—3½ hours.

SURVEYING, LEVELLING AND GEOLOGY

Values

1. The following are the notes of a closed traverse:

Line	Inclined Distance ft.	Vertical Angle	Azimuth
1-2	239.6	-28°31'	260°11'
2-3	240.3	- 2°05'	194°30'
3-4	383.7	30°18'	71°13'
4-5	282.5	27°48'	59°38'
5-1	196.4	-14°37'	288°40'

On calculating the latitudes and departures you will find that the traverse does not close. If the error were in chaining, calculate the error, and state in which line it was made. 45

2. In a triangle ABC the base AC measures 1,000 ft., and the adjacent angles are 60° and 45° respectively. Calculate the area of the triangle in square feet and acres..... 25

3. A mine in a pitching seam is worked on the angle system. Rooms are driven on a pitch of 30° in a N 30°00'E direction, and cross cuts are driven at right angles to the rooms towards the West, on a 30° pitch. What is the direction and degree of the full dip? 20

4. The levels taken on the floor of an undulating roadway from "A" to "B" are as follows:

B.S.	I.S.	F.S.	Distance in Feet	
5.80			0	at "A"
5.72		2.30	50	
	2.97		100	
1.78		1.22	150	
	2.78		200	
5.00		5.28	250	
	5.50		300	
	4.00		350	
5.16		0.75	400	
	1.91		450	
		3.91	500	at "B"

Plot the section to a scale of 50 ft. to 1 in. for horizontals and 10 ft. to 1 in. for verticals. Give the average gradient from "A" to "B" and mark the depth of cut or fill at every 50 ft. necessary to make the road of uniform gradient from **"A"** to "B". 40

5. Calculate the tonnage of coal in a pitching seam whose vertical height is 7.075 ft. over an area of 1,000 ft. along the strike and 500 ft. along the dip, measured horizontally. The specific gravity of the coal is 1.32. 20

6. The Coal Horizons of Alberta are named in the following manner: Edmonton Coal, Belly River Coal, Belly River (including Edmonton) Coal and Kootenay Coal. The horizons are further divided into Coal Areas. Name the areas in the order shown above and give the average B.T.U. heat value of each area. 30

7. A plan as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act, must be handed in to the presiding examiners with the answers to this paper. 10

8. A profile of an underground levelling as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act, must be handed in to the presiding examiners with the answers to this paper. 10

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 3, 4 and 5, 1953.

SECOND CLASS CERTIFICATES

Marks obtainable 200. Marks required 100
Paper No. 1. Time—3½ hours.

THE COAL MINES REGULATION ACT

		Values
1.	What are the requirements of the above Act regarding storage of explosives and shot-firing in coal mines? (Sec. 145).	20
2.	What does the above Act state regarding qualifications of a manager and exemptions of certain mines? (Sec. 59).	18
3.	What does the above Act state regarding entrances to unused places underground, and apparatus for raising and lowering of persons? (Sec. 82).	20
4.	What do the Regulations Covering Care and Use of Explosives state regarding cables and shot-firing? (Reg. 12 and 13).	20
5.	In the Electrical Regulations, what additional requirements shall be observed where inflammable gas or coal dust is likely to occur in quantity sufficient to be indicative of danger? Reg. (p).	24
6.	What does the above Act state regarding mode of air circulation? (Sec. 110).	16
7.	What does the above Act require regarding withdrawal of workmen when conditions are found dangerous? (Sec. 129).	18
8.	What does the above Act state regarding control of employees, and duties of persons in charge of a working face? (Sec. 149, Rule 20).	20
9.	What are the requirements of the above Act regarding fire protection? (Sec. 133).	22
10.	What does the Act state with reference to appointments, duties, qualifications of examiners, and size of districts assigned to them? (Sec. 61 and 62).	22

SECOND CLASS CERTIFICATES

Marks obtainable 200. Marks required 100
Paper No. 2. Time—3½ hours.

GASES, SHOT-FIRING AND SAFETY LAMPS AND VENTILATION

		Values
1.	An entry contains a mixture of 65,000 cu. ft. of firedamp and air. If 10 per cent of firedamp is present, find the additional quantity of air necessary to dilute it to 2 per cent.	20
2.	A borehole from the surface to the workings in a mine, is 6 ins. in diameter, and a mixture containing 50 per cent methane and 50 per cent air is passing up this hole with a velocity of 130 ft. per minute. What is the volume of the flow in cu. ft. per min., and what will be it's volume if sufficient air is added to bring the mixture to its maximum explosive point?	22
3.	What are the essential features in a Safety Lamp? Show by sketch.	18
4.	(a) Does a high water gauge always indicate a large quantity of air passing? (b) What does a low water gauge with a large quantity of air passing indicate?	16
5.	The anemometer indicates a velocity of the air current of 200 ft. per min. in an airway 5 ft. by 8 ft. and 4,000 ft. long. Calculate (a) the quantity of air passing per min. (b) the pressure in pounds per sq. ft. (c) the water gauge and (d) the horsepower on the air.	20
6.	Describe the various changes observed in the development of spontaneous combustion from the first indication to the ignition stage.	22
7.	Make a careful freehand sketch of a hygrometer, including every detail of its construction, and describe the objects to be attained by the use of this instrument in a mine.	24
8.	What do we mean by the term horse-power as applied to the ventilation of mines? What horse-power will be required to cause 30,000 cu. ft. of air to circulate per minute through an airway if the water gauge is 2.2 inches?	18
9.	What are the causes of blown out shots and miss-fire shots respectively, and why are they dangerous? Discuss the effect of placing a coal shot so near to the roof that it penetrates it at the far end.	20
10.	Explain briefly (a) Boyle's Law (b) Charles Law (c) Find the weight of one cubic foot of air when the barometer reads 30 inches and the temperature is 60 degrees Fahr.	20

SECOND CLASS CERTIFICATES

Marks obtainable 200. Marks required 100
Paper No. 3. Time—3½ hours.

PRACTICAL WORK, FIRST AID AND MINE RESCUE WORK

Values

1. What is meant by the terms "creep" and "squeeze"? Under what condition would they be likely to occur? When creep or squeeze develops, what can be done to prevent or control the effect of same? 18

2. An air shaft is 200 ft. in depth and measures 10 ft. by 10 ft. A section 50 ft. in depth near the centre of the shaft, is in need of complete repairs. Describe how you would prepare for and complete this work. The shaft is not used for hoisting purposes. 24

3. A driver has been crushed between two cars and received a fractured pelvis. What first aid treatment would you give, and how would you transport the injured person to the outside of the mine? 20

4. What is a "bump"? Describe some conditions of operating that would cause a bump to take place. What methods would you recommend to reduce the hazards of bumps? 20

5. A flat seam of coal 5 ft. in height has a band of rock one ft. in thickness in the centre of the seam. Lay out a section of this seam to produce 300 tons per shift with the use of duckbills, and describe an eight-hour cycle of operations at the face of a working place. Loading of rock out of the mines is strictly limited. 30

6. Sketch and describe how you would set supports in a flat seam 4 ft. 6 ins. in height on an entry at a roomneck, and where two main haulage roads cross each other at right angles. 18

7. In a seam 18 ft in height, inclined at 30 degrees, with a poor roof and strong side pressure, sketch and describe how you would set supports in:
   (a) A parting 14 ft. in width.
   (b) A room 15 ft. in width.
   (c) A pillar extraction. 20

8. Sketch and describe the operation of an H.H. Inhalator. Outline the various methods of artificial respiration, and state your preference and reasons for same. 20

9. Sketch and describe a siphon, showing position of valves and how it is operated. What is the most common cause of a siphon failing to operate? To what vertical height could water be lifted at an elevation of 4,000 feet above sea level? 15

10. In a pitching seam there are three places loading into one chute and the cubic measurements taken in each place at the end of a period show the following:
    (a) 56 ft. by 10 ft. by 8 ft.
    (b) 72 ft. by 9 ft. by 9 ft.
    (c) 90 ft. by 9 ft. by 10 ft.
    The total amount of coal loaded is 750.2 tons. State the amount of coal to be assigned to each place. 15

SECOND CLASS CERTIFICATES

Marks obtainable 200. Marks required 100
Paper No. 4. Time—3½ hours.

MACHINERY

Values

1. A double-acting pump 6 ins. in diameter and driven by an engine 20 ins. in diameter, is worked by steam at a gauge pressure of 70 pounds per sq. in. Assuming the mean effective pressure to be 60 pounds per sq. in. neglecting friction, find the greatest height to which this pump could raise water. 18

2. Sketch and describe how you would determine (a) the diameter of a spindle (b) the thickness of metal in a pipe and (c) the diameter of the balls in a ball bearing. 22

3. (a) In what respects is a flue boiler different from a tubular boiler?
   (b) Which is the more economical and why? 20

4. A coupled steam engine has two cylinders with a diameter of 12 ins. and a stroke of 20 ins. The mean effective pressure of the steam is 60.43 pounds per sq. in. When running at 100 rev. per minute, what is the horse-power developed when the ratio of expansion is 2? 22

5. Define the terms:
   (a) Work.
   (b) Foot-Pounds.
   (c) Ampere.
   (d) Volt.
   (e) Horse-power. 20

6. Calculate the diameter of a plow steel six-strand 19 wire rope for a safe working load of 10 tons. Use 5 as a factor of safety. 16

7. Suppose that a direct haulage is to move a trip of cars at a speed of 8 miles per hour, and that the diameter of the drum is 5 ft. 3 ins. What would be the revolutions of the drum per minute? 18

8. (a) What are the three instruments most commonly in use for the measurements of the electric power supply to a main colliery circuit?
   (b) What is the purpose of each instrument? 20

9. The exhaust ports of reciprocating compressed air engines sometimes get blocked by ice. Explain the formation of the ice, state how this can be prevented, and describe the steps that may be taken to enable ice so formed to be removed from the ports and passages in the engine. 24

10. If a D.C. generator develops a current of 100 amperes at a pressure of 200 volts, and an A.C. generator develops a current of 57.81 amperes at a pressure of 200 volts, what would be the difference in horse-power between the generators? Ignore power factor in the A.C. generator. 20

SECOND CLASS CERTIFICATES

Marks obtainable 200. Marks required 100
Paper No. 5. Time—3½ hours.

SURVEYING, LEVELLING AND GEOLOGY

Values

1. Plot the closed survey with protractor to a scale of 1 inch equals 100 feet.

	Bearing	Horizontal Distance feet.
From "A"	N 25°E	150
	N 60°E	200
	S 50°E	220
	S 10°W	180
	W	383 to "A"

An error has been made. Where would you infer from the plotting that it has occurred? 30

2. What is the difference between loose Needle and fast Needle surveying, and what are the special advantages of the latter? 30

3. A road was required to be set in a direction N 1°E. but in error it was set away at N 1°W. How many feet will it have been displaced sideways from the intended direction at the point where the road reaches 1,000 yards in length? 20

4. The following are the bookings of a levelling in a short length of underground roadway. Reduce the levels to a datum of 10 ft. under "A", and give proof to show that your work is correct.

Distance in Feet	Back Sight	Fore Sight
0	6.00	At "A"
50		0.35
100	6.90	1.25
150	4.95	1.55
200	5.50	0.30
250	6.65	1.35 At "B" 35

5. A horizontal coal seam has a thickness of 6 ft. 6 ins. and the coal has a specific gravity of 1.37. Calculate:

   (a) The number of tons underlying 1 acre.

   (b) The number of tons which will be produced per acre, with an extraction of 62 per cent. 20

6. State fully the action of Igneous agencies in the earth's crust. 20

7. When a new coal seam has been located, all available evidence must be collected which will have economic effects during any possible future mining project. Give the principal considerations you would deem necessary. 25

8. A triangular area in a coal field has a base of 121 yards, and the offset from the base to vertex has a length of 80 yards. In working by the long wall method, 5,312 tons were mined in this area from a 4 ft. seam. If the specific gravity of the coal is 1.25, find the percentage of loss in working. 20

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 26th, 1953

THIRD CLASS CERTIFICATES

Marks obtainable 200. Marks required 100
Paper No. 1. Time—1½ hours.

THE COAL MINES REGULATION ACT

Values

1. What does Section 129 state regarding withdrawal of men from the mine when conditions are found dangerous? 34
2. What does Section 145 state regarding explosives and shot-firing? 25
3. What does Regulation 16 of the Regulations Covering the Care and Use of Explosives state regarding shot-firing in dry or dusty places? 22
4. What does Section 152 state regarding duties of an examiner? 34
5. What do the general rules under Section 149 state regarding:
    (a) Support of working face while undercutting? (Rule 1).
    (b) Interference with timber, air-course, etc. prohibited. (Rule 15).
    (c) Employment at working face prohibited unless cries in case of need can be heard. (Rule 24).
    (d) Brattice and air pipes? (Rule 30). 22
6. What does Section 153 state regarding duties of shot-lighter? 33
7. What are the requirements of Section 117 regarding use of brattice in fast ends? 15
8. What does Section 146 state regarding interference with shot-lighter or examiner in performance of his duty under the Act. 15

THIRD CLASS CERTIFICATES

Marks obtainable 200. Marks required 100
Paper No. 2. Time—2 hours.

VENTILATION

Values

1. Which airway should be larger, the intake or the return? Give reasons for your answer. 24
2. If powder smoke requires 2 minutes to travel 120 yards in a mine airway 6 ft. by 8 ft., what volume of air is passing in the airway per minute? 26
3. In an airway 8 ft. 3 ins. across the top, 10 ft. 3 ins. across the bottom and 7 ft. high, the anemometer reading indicates velocity of air to be 120 ft. per minute. Calculate the quality of air passing per minute. 30
4. What are the objects of mine ventilation? 22
5. Is it proof of good ventilation in a mine when a very rapid current of air is passing through a small airway? Give reasons for your answer. 26
6. Name the two systems of ventilation used to ventilate mines. What system do you prefer? Give reasons for your preference. 26
7. Name the different devices required to circulate an air current throughout the mine. State purpose of each device. 24
8. What quantity of air would be required to ventilate a mine where there are 65 men and 5 horses? 22

THIRD CLASS CERTIFICATES

Marks obtainable 200 Marks required 100
Paper No. 3. Time—1½ hours.

PRACTICAL WORK

Values

1. Sketch and describe a method of supporting the roof at the junction of a room and an entry, in a flat seam 5 ft. in height. Show principal dimensions. 30
2. If 12 men load out 720 tons of coal in 20 days, how many tons of coal will 9 men load out in 25 days? In both cases the men work 8 hours. 16
3. Describe in detail how a socket is attached to a haulage rope. What is meant by the terms Lang lay and ordinary-lay when used in connection with wire ropes. 28
4. Sketch and describe a method of supporting the roof at the junction of a raise and an entry in a seam 15 ft. in height, pitching 30 degrees. Give principal dimensions. 32
5. Show how you would support the roof at the face in a duckbill operation. The seam is 5 ft. in height and the room is 24 ft. in width. Describe how the roof supports are manipulated to enable the duckbill to operate on either side of the room. 30
6. Make a neat sketch of (a) a downthrow fault (b) an upthrow fault (c) a syncline and (d) an anticline. 20
7. Make a sketch showing how you would construct an overcast in a flat seam, the seam being 6 ft. in height. Show dimensions on sketch. 26
8. A coal mine produces 3,500 tons of lump coal, 450 tons of nut coal and 800 tons of slack daily. Express these figures as percentages of the total output. 18

THIRD CLASS CERTIFICATES

Marks obtainable 200 — Marks required 100
Paper No. 4. — Time—2 hours.

MINE GASES, SHOTFIRING, EXPLOSIVES AND SAFETY LAMPS

Values

1. Name the different "damps" commonly known to mine officials. State their compositions. 24
2. What are the properties of fire-damp? How is the gas given off and how may it be detected in the mine? 24
3. (a) Why are mercurial or aneroid barometers used at gaseous mines?
   (b) Enumerate the persons at a mine who are required to observe and take readings from the instrument. 20
4. A main return volume of 40,000 cubic feet of air per minute contains 160 cubic feet of CH_4.
   (a) What percentage of CH_4 is contained in the return air?
   (b) Would you consider this a satisfactory condition? 20
5. While pursuing your duties as an examiner for an oncoming shift, you find that a brattice curtain conducting air to the face of a working driven to the rise has been disrupted and a gaseous condition within the heading is suspected. State fully what action you would take. 30
6. You are acting as overman and fireboss at a small mine employing four persons underground. While making your inspection for the oncoming shift, you detect smoke issuing into the return. Upon investigation you find intense heat developing in loose coals at the face of a development entry, the entry face being 70 feet in advance of the last cross-cut and ventilated by a brattice partition. What would be your procedure in this case? 40
7. What would be the result if two different types of explosives were fired in the same shothole? 20
8. Three separate gauzes are used in the construction of the Wolfe flame type safety lamp.
   (a) State the position of the gauzes.
   (b) What purpose do they serve?
   (c) How may they be rendered ineffective? 22

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

June 5th, 1953

MINE SURVEYORS' CERTIFICATES

Marks obtainable 200 — Marks required 120
Paper No. 1 — Time—3½ hours.

Values

MINE SURVEYING

1. Workings in a level seam are approaching a straight section of an inter-colliery boundary, along which it is required to leave unworked a barrier of coal 150 feet in breadth.
   The co-ordinates of two points A and B on the boundary line and a survey station C in the workings are respectively as follows:

	Latitude (ft.)	Departure (ft.)
A	N 5980.01	E 2766.72
B	N 6301.56	E 4083.26
C	N 4678.69	E. 3555.60

The notes of an underground traverse from Station C are as follows:

	Azimuth	Distance
CD	346°40'40''	310.30
DE	347°10'30''	428.45
EF	76°01'00''	150.10
FG	347°00'00''	415.86

Calculate the azimuth of the boundary line and the distance from G, on the line FG produced, at which the centre line of an entry 12 ft. in width should be set off to run parallel to the boundary and provide the required barrier. 45

2. The combined area of two coal leases is equal to two Legal Subdivisions. The first lease is represented as a fraction of a L.S.D. whose denominator is 6 more than its numerator and the second lease as a fraction whose numerator is 2 less and the denominator 10 less than the first fraction. Find the area of each lease in terms of legal subdivisions and acres. 25
3. How would you carry out the tests prescribed by the Regulations made pursuant to the Coal Mines Regulation Act, in order to determine the degree of inflammability of the dust found in the coal mine roadways? How should this test be made in order to assure accuracy in the case of mines in which ground limestone is used to render harmless the coal dust? 30

4. A circular airway is filled with water to a depth of 8 feet. If the surface of the water forms a chord of 8 feet, calculate the diameter of the airway. 20

5. A, B and C are three points on a regular circular curve; B is 200 feet N 63°30'E of A and C is 350 feet S 70°00' E of B. Calculate the radius of the curve. 45

6. What data does the Coal Mines Regulation Act require to be shown on mine plans? Give a brief sketch of a plan showing all the data mentioned in the said Act. 25

7. A plan as required by Rule 7 of the Rules Governing Examinations under the Coal Mines Regulation Act, must be handed in to the presiding examiners with the answers to this paper. 10

MINE SURVEYORS' CERTIFICATE

Marks obtainable 200
Paper No. 2.

Marks required 120
Time—3½ hours.
Values

LEVELLING AND GEOLOGY

1. The floor level notes of an underground roadway are as follows:

Station	B.S.	I.S.	F.S.	H.I.	Elevation
	4.90				100.00' B.M.
0		3.60			
1		3.75			
2		2.50			
	4.30		2.30		
3		4.61			
4		5.60			
	6.40		5.80		
5		5.71			
6		4.20			
	7.60		3.20		
7		6.41			
8		5.40			
	6.20		4.30		
9		5.01			
10			4.00		

Work out the notes and plot a profile on a scale of 1 inch to 100 feet for horizontals and 1 inch to 5 feet for verticals. Show the average gradient from Station 0 to 10, mark the depths of cut or fill at each station and calculate the cubic yardage of filling from the floor to make a uniform grade from Station 0 to 10, the roadway being 9 feet wide. Stations are 100 feet apart. 45

2. What are fossils and how do they assist in determining the place of any particular strata in the geological age scale? 30

3. A seam of coal is exposed in a vertical cliff. A is the top of the coal seam and B the top of the cliff. After choosing two points C and D on evenly sloping ground below the seam at right angles to the cliff and setting up your instrument with equal heights over each point, you obtain the following information:

Slope distance C-D	50 ft.
The Angle ACD	13°00'
The Angle BCD	22°12'
The Angle ADC	161°30'
The Angle BDC	150°11'

Calculate the thickness of the cover above the coal seam. 45

4. The co-ordinates of the centres of two shafts A and B and the surface elevations thereat are as follows:

Shaft	Lat.	Dep.	Elev. above datum
A	—660.77	—569.48	679.5
B	339.23	1162.52	179.5

Shaft A has reached a coal seam at a depth of 1,000 ft. which dips due West at 1 in 8 (1 ft.vertical to 8 ft. horizontal), and a heading driven 300 yards due east has reached a downthrow fault bearing at right angles thereto. The fault has a throw of 200 ft. and a heave of 100 ft. It is proposed to sink shaft B to intersect the same seam. Make a profile and calculate the depth from the surface at which it will do so, assuming the measures dip uniformly throughout. 30

5. A circular water tank is shown on a drawing, the scale of which is three-eighths of an inch to the foot. By measuring the drawing, the capacity of the tank is found to be 2,176 gallons. It is subsequently found that in error a scale of one-half inch to the foot was used in scaling from the drawing. What is the correct capacity of the tank? 20

6. In searching for coal in a new district, state briefly what indications you would look for. What rock formations are most likely to contain it? What kind of rocks are most common in the coal measures? 20

7. A profile of an underground levelling as required by Rule 7 of the Rules Governing Examinations under The Coal Mines Regulation Act must be handed in to the presiding examiners with the answers to this paper. 10

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 26th, 1953.

MINE ELECTRICIANS' CERTIFICATE

(FIRST CLASS)

Marks obtainable 200 Marks required 120
Paper No. 1. Time—1½ hours.

THE COAL MINES REGULATION ACT

	Values
1. State the requirements of Regulation (d) of the Electrical Regulations regarding notices that are required to be exhibited.	35
2. What are the requirements of Regulation (g) for all apparatus and conductors?	40
3. What are the requirements of Regulation (j) where electricity is distributed at a pressure higher than medium pressure?	30
4. State the requirements of Regulation (n) regarding flexible cables for portable apparatus.	35
5. State the duties of a mine electrician as defined in Regulation (o) subsection (2).	35
6. What are the requirements of Regulation (r) where electricity is used for signalling?	25

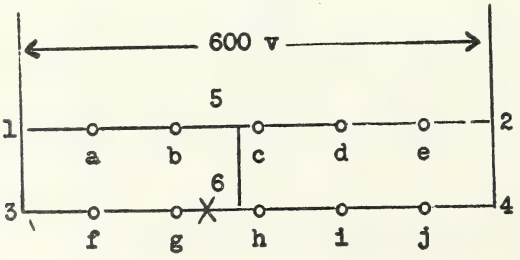
MINE ELECTRICIANS' CERTIFICATES

(FIRST CLASS)

Marks obtainable 200 Marks required 120
Paper No. 2. Time—2 hours.

THEORY

	Values
1. Trolley locomotive haulage is installed in a mine. The trolley wire is #0000 and the inside end of the trolley wire is 8,000 ft. from the 275 volt, D.C. supply. A #0000 feeder extends 4,000 ft. from the D.C. supply and 60 lb. steel is used for rails. If a short circuit occurred between the trolley wire and rails at the inside end (8,000 ft. from the motor-generator set), what would be the short-circuit current? Resistance of #0000 wire is .05 ohm per 1,000 ft., resistance of 60 lb. rails, bonded and cross bonded is .009 ohm per 1,000 ft.	30
2. A 100 H.P., three-phase induction motor, having an efficiency of 90 per cent, is to be supplied with current at 550 volts. If the power factor of the motor on full load is .80, what size conductors would be required?	35
3. A three-phase transformer is supplied with current at 3,000 volts and gives current to a load at 600 volts. If this current is 400 amps at a lagging power factor of 0.75, determine the kilowatt output.	35
4. Twenty cells are to be charged from 220 volt mains. The internal resistance of each cell is 0.02 ohm and the E.M.F. during charge 2.4 volts. Find the value of the resistance to be connected in series with the battery so that the charging rate will be 3 amperes.	40
5. Three single-phase transformers are to be connected Delta on the primary side and Star on the secondary side. Draw a diagram of the connections and show what the secondary voltage would be if the primary voltage is 2,200 volts. Ratio is 10 to 1.	30
6. 120 volt lamps are connected to a 600 volt circuit as indicated below. What would happen to the brilliance of the lamps if a jumper was placed from 5 to 6 after a break occurred between g and h? All lamps are rated at 60 watts.	30



MINE ELECTRICIANS' CERTIFICATES

(FIRST CLASS)

Marks obtainable 200 — Marks required 120
Paper No. 3. — Time—3½ hours.

PRACTICAL WORK

Values

1. Draw a diagram showing how to reverse the direction of a series wound D.C. motor using a double-throw, two pole knife switch. 20
2. If all the motors in a tipple or cleaning plant started running hot, what trouble would you look for? No trouble is experienced in starting the small motors after stopping them. 20
3. Two 440 volt alternating current generators are to be synchronized. Draw a simple diagram showing how this is done with lamps, using lamps dark. 20
4. Explain how you would test the insulation value of:
    (a) A lead covered, steel wire armored, three conductor cable which is to be used on 2,300 volts. 5
    (b) A coal cutting machine trailing cable. 5
    What minimum insulation value would you consider satisfactory for (a) and (b)? 5
5. (a) Describe how a fluorescent lamp operates and how it is constructed. 15
    (b) What is the function of the starting auxiliary used in connection with a fluorescent lamp? 10
6. (a) What is meant by the pull-in torque of a synchronous motor? 10
    (b) What is meant by the pull-out torque of a synchronous motor? 10
7. A motor-generator set is installed in a mine for charging locomotive batteries. If the polarity of the D.C. generator became reversed, how would you change it back to its original polarity? What would likely be the cause of it becoming reversed? 20
8. What precaution must be taken when replacing an ammeter which is connected to a current transformer? 15
9. Explain how you would install a three-phase, 200 H.P., 2,300 volt squirrel cage motor in a building above ground. Start at the line outside and explain, using a diagram, what type of wiring and what type of apparatus you would use. 20
10. (a) In installing pole lines around a mine, what height above ground should the conductors be for:
        (1) A 2,300 volt line.
        (2) A 220 volt line. 10
    (b) How would you test an old pole to see if it was safe to climb? 15

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT

May 26th, 1953

MINE ELECTRICIANS' CERTIFICATES

(SECOND CLASS)

Marks obtainable 200. — Marks required 100
Paper No. 1. — Time—3½ hours.

THE COAL MINES REGULATION ACT

Values

1. What are the requirements of Regulation (k) of the Electrical Regulations, regarding switchgear, terminals, cable ends, etc.? 20
2. State the requirements of Regulation (d) in connection with notices which are required to be exhibited. 15
3. What are the requirements of Regulation (p) regarding the part of a mine where inflammable gas or dust is liable to occur? 25
4. What are the requirements of Regulation (j) where higher than medium pressure is used? 15
5. State the requirements of Regulation (r) regarding the use of electricity for signals. 10
6. What does Regulation (t) state regarding haulage by electric locomotives? 10
7. State the duties of the electrician as laid down in Regulation (o) subsection (2). 20
8. State the requirements of Regulation (n) regarding flexible cables for portable apparatus. 15
9. State the requirements of Regulation (1) in connection with switchgear for cutting off supply of current, etc. 35
10. Regulation (m) states that all cables other than flexible cables shall comply with certain requirements. State these requirements. 35

MINE ELECTRICIANS' CERTIFICATES

(SECOND CLASS)

Marks obtainable 200
Paper No. 2.

Marks required 100
Time—3½ hours.

THEORY AND PRACTICAL WORK

Values

1. What would be the minimum current carrying capacity of the common feeder for three motors whose full load currents are 30, 90 and 180 amperes respectively? 10
2. A load of ten 100 watt, 120 volt lamps are located 1,000 ft. from the source of supply. If No. 10 wire is used (one ohm per 1,000 ft.), and it is desired that 120 volts be maintained at the load, what must be the voltage at the source? Show how you arrive at answer. 25
3, How would you test a pole to find out if it was safe to climb? 15
4. State what you consider to be suitable starting and controlling apparatus for the following, explaining each type:
   (a) Slope hoist.
   (b) Endless rope haulage.
   (c) Coal cutting machine. 30
5. (a) A mine uses a number of telephones underground. What would the following troubles indicate to you:
   (1) Bells do not ring clearly and crank turns heavily.
   (2) Bells ring clearly and crank turns more lightly than normal.
   (3) You can hear but the person on the other end cannot hear you.
   (4) Too much noise on the phone. 20
   (b) What protection should be installed for telephone lines entering underground workings? 10
6. How should a given number of dry cells be connected to give:
   (a) Maximum voltage.
   (b) Maximum current. 15
7. Draw a diagram showing the connections and instruments necessary to measure the voltage and current supplied to an A.C., three-phase, 10 H.P., 220 volt motor. 15
8. (a) What is meant by low voltage protection and how is this attained? 10
   (b) In inspecting Permissible Explosive switchgear, name four points you would check on. 10
9. (a) How does the power in a circuit vary with the current? 10
   (b) How does the resistance of a wire vary with its cross-sectional area? 10
10. (a) Explain how overload protection of the thermal type functions in opening a circuit. 10
    (b) Explain how overload protection of the dash pot type functions in opening a circuit. 10

GOVERNMENT OF THE PROVINCE OF ALBERTA

MINES DIVISION

EXAMINATIONS UNDER THE COAL MINES REGULATION ACT
June 5th, 1953

STRIP MINE MANAGERS' CERTIFICATES

Marks obtainable 200
Paper No. 1.

Marks required 120
Time—3½ hours.

THE COAL MINES REGULATION ACT

Values

1. What are the requirements of the Coal Mines Regulation Act in connection with inquests held on body of person killed by accident? (Sec. 105). 25
2. What are the requirements of Regulation 2 and 3 of the Strip Mine Regulations, under the heading of "Supervision", regarding the responsibility and duties of Managers, Foremen and Blasters? 25
3. What are the interpretations of the following terms: (Reg. 1).
   (a) Pitching seam;
   (b) Combined operations;
   (c) Strip Mine. 24
4. What does Regulation 16a and 16b of the Strip Mine Regulations state regarding backfilling? 16
5. What does Regulation 19 of the Strip Mine Regulations state with reference to provisions applicable to combined operations? 25
6. What does Regulation 18 of the Strip Mine Regulations state regarding Roadways and General Haulage? 14
7. What does Section 138 of the Act state with reference to the drilling of shot-holes, etc., by mechanical power? 20
8. What does Section 144 of the Act state regarding Barrier Pillars? 16
9. What does Section 149 of the Act state regarding:
   (a) Intoxicated persons (Rule 14);
   (b) Delegation of work by persons in position of trust (Rule 9);
   (c) Inspection of machinery (Rule 4). 15
10. (a) What does Section 79 of the Act say in connection with monthly returns of production?
    (b) What penalty may be imposed for failure to send returns or giving false information therein? (Sec. 167). 20

STRIP MINE MANAGERS' CERTIFICATES

Marks obtainable 200.
Paper No. 2.

Marks required 120
Time—3½ hours.

THEORY AND PRACTICAL WORK

Values

1. Name and state the sizes of coal commonly produced by Alberta strip mines for the Western Canada domestic market. Describe a tipple layout to produce these sizes and handle an output of 1,000 tons per day. 25

2. Four boreholes, A, B, C, and D have been drilled in line at 500 ft. intervals to intersect a coal seam during prospecting operations. The elevations of the top of the boreholes and their depth to the top of the coal seam are as follows:

	Elevation	Depth
A	2754 ft.	53 ft.
B	2762 ft.	58 ft.
C	2753 ft.	44 ft.
D	2750 ft.	37 ft.

From the above data, calculate the average dip of the seam along the line of boreholes. If the seam averages 7 ft. in thickness, calculate the average strip ratio and the approximate cost of stripping per ton of coal, assuming the removal of overburden at 23c per cu. yd. and that a cu. ft. of coal weighs 80 lbs. 20

3. It has been decided to start a strip mine in a locality where electric power is not available. State how you would arrive at the amount of electric power required and what provisions you would make to ensure an adequate supply of electric power for the contemplated operation. 20

4. Make a sketch illustrating a pin or rivet in double shear. If the maximum permissible stress in double shear for an iron pin is 7 tons per sq. in., what diameter would you make a pin to carry a load of 6 tons. 15

5. What is the horsepower of a steam engine having a single cylinder 18 ins. in diameter and 30 ins. long, using steam at both ends, running at 84 revs. per minute, with a mean effective pressure of 45 lbs. per sq. in.? 20

6. What are contours, and of what use in strip mining operations is a contour map of the surface covering a coal lease. 17

7. An electric motor has a belt pulley 6 ins. in diameter and runs at 550 revs. per minute. Calculate the speed of the belt in feet per minute. If this belt drives a shaft pulley 24 ins. in diameter, what is the rev. per minute of the shaft? 18

8. Give the advantages and disadvantages of the stripping system of recovering coal. .. 20

9. Coal bearing strata in Alberta occur in three different geological horizons.

   (a) Name them.

   (b) Discuss in your opinion what would prompt you if going into the coal business through stripping methods. 20

10. A coal seam pitching 55 degrees outcrops on a flat lying surface. The strata reading from the hard sandstone footwall is as follows: Coal 26 ft., Soapstone 4 ft., Sandstone 3 ft., Hard shales 20 ft., Disintegrated Sandrock 4 ft., Gravel 10 ft. and Alluvials 48 ft. You are to supervise joint stripping and production operations to a vertical depth of 60 ft. All the facilities necessary for the operation are available.

    (a) Describe your method of procedure for the recovery of the seam. Apart from safety, economy of the operation is an important factor.

    (b) Using a scale of 200 ft. to the inch, draw an end view of one section of the worked out pit. Show the position and lay of the various strata as they emerge on the sides of the excavation. 25

PARTICULARS OF OPERATING MINES DURING 1953 BY AREAS

ARDLEY AREA

R. R. Straub—Mine No. 255

Mine Office: Alix, Alberta.
Mine Manager: Robert R. Straub.
Mine Surveyor: David Jones.
Foreman: R. R. Straub.
Thickness of Seam: 6 ft.
Thickness of Cover: 24 ft. to 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S.W. ¼ of L.S. 5, Sec. 17, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 734.
C.N.R. and Truck Mine.
Registered Trade Name: Conger Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1910.

Allyn Mann Construction Co.
Mine No. 809

Mine Office: Alix, Alberta.
General Manager: H. Allyn Mann.
Mine Manager: H. Walper.
Mine Surveyor: David Jones.
Thickness of Seam: 5 ft.
Thickness of Cover: 45 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16 of Sec. 33, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 473, 584.
C.N.R. and Truck Mine.
Registered Trade Name: Eclipse Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1919.

J. McDowell—Mine No. 1613.

Mine Office: Delburne, Alberta.
Mine Manager: J. McDowell.
Mine Surveyor: David Jones.
Thickness of Seam: 4 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 10 of Sec. 20, Twp. 28, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 4584.
Truck Mine.
Registered Trade Name: Sunbeam Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1943.

John Lynass—Mine No. 1734.

Authorized Capital: $50,000.00.
Mine Office: Delburne, Alberta.
Mine Manager: John Lynass.
Mine Surveyor: David Jones.
Foreman: Walter Duechor.
Thickness of Seam: 4 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 2 & 7 of Sec. 20, Twp. 38, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 6088.
Truck Mine.
Character of Coal: Sub-bituminous.
Date of Opening: 1953.

BIG VALLEY AREA

Carbonite Corporation of Canada Ltd.
Mine No. 864.

Authorized Capital: $50,000.00.
Name of President: Arthur A. Voice.
Name of Directors: Arthur A. Voice, Tine Sarah Voice.
Name of Secretary-Treasurer: Tine S. Voice.
Head Oiffice: 10263 - 112 Street, Edmonton. Alberta.
Mine Office: Big Valley, Alberta.
General Manager: Arthur A. Voice.
Mine Manager: W. Hubert.
Mine Surveyor: Allan Hamilton.
Foreman: W. Hubert.
Thickness of Seam: 8 ft.
Thickness of Cover: 20 ft. to 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 12 & 13 of Sec. 36, Twp. 35, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 6054.
C.N.R. and Truck Mine.
Registered Trade Name: Big Valley Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1920.

A. Anderson, I. Steffensen & Roy Hunter
Mine No. 1661.

Mine Office: Elnora, Alberta.
Mine Manager: A. Anderson.
Mine Surveyor: David Jones.
Overman: A. Anderson.
Thickness of Seam: 5 ft.
Thickness of Cover: 35 ft. to 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. Depth of Slope: 20 ft.
Location of Mine: L.S. 2, Sec. 13, Twp. 36, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 691.
Truck Mine.
Registered Trade Name: Elnora Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1947.

Claude Blair & Leonard A. Watson
Mine No. 1716.

Mine Office: Delburne, Alberta.
General Manager: Claude R. Blair.
Mine Manager: Leonard A. Watson.
Mine Surveyor: David Jones.
Foreman: Clarence R. Lasseter.
Thickness of Seam: 4 ft.
Thickness of Cover: 22 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16 of Sec. 13, Twp. 36, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 708.
Registered Trade Name: Watson & Blair Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1950.

BROOKS AREA

Kleenbirn Collieries Limited
Mine No. 1404.

Authorized Capital: $250,000.00.
Name of President: J. G. Westgate.
Name of Directors: R. M. Balfour, J. G. Westgate.
Name of Secretary-Treasurer: R. M. Balfour.
Mine Office: Eyremore, Alberta.
Mine Manager: J. G. Westgate.
Mine Surveyor: J. F. Hamilton.
Foreman: W. E. Herrick.
Thickness of Seam: 4 ft. x 9 ft.
Thickness of Cover: 32 ft. x 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Pts. of Sec. 15, Twp. 17, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 683.
C.P.R. and Truck Mine.
Registered Trade Name: Birnwel & Kleenbirn Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1932.

Coral Coals Limited—Mine No. 1672.

Authorized Capital: $20,000.00.
Name of President: Lorraine Patrick.
Name of Directors: Lorraine Patrick, Harry P. Hartley, O. K. Reishus and A. C. Hnatyshyn.
Name of Secretary: Hilda M. Forsey.
Name of Treasurer: A. C. Hnatyshyn.
Head Office: 2410 - 4th St. S.W., Calgary, Alberta.
Mine Office: Cecil, Alberta.

Mine Manager: O. K. Reishus.
Mine Surveyor: J. F. Hamilton.
Foreman: Edward Oliver.
Thickness of Seam: 7 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1 & 8 of Sec. 3, Twp. 14, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 711.
C.P.R. Mine.
Registered Trade Name: Rolling Hills Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1950.

CAMROSE AREA

Joe Proskow—Mine No. 241.

Mine Office: Dinant, Alberta.
Mine Manager: Joe Proskow.
Mine Surveyor: David Jones.
Foreman: Joe Proskow.
Thickness of Seam: 6½ ft.
Thickness of Cover: 18 ft. to 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S.W. ¼ of Sec. 18, Twp. 48, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: M.S. 995.
Truck Mine.
Registered Trade Name: Proskow Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1910.

S. H. Burnstad—Mine No. 724.

Mine Office: Ohaton, Alberta.
Mine Manager: S. H. Burnstad.
Mine Surveyor: David Jones.
Foreman: S. H. Burnstad.
Thickness of Seam: 5 ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S.W. ¼ of Sec. 14, Twp. 48, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5525.
Truck Mine.
Registered Trade Name: Burnstad's Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1917.

A. A. Campbell & C. A. Fergstad
Mine No. 1055.

Mine Office: Round Hill, Alberta.
Mine Manager: C. Fergstad Sr.
Mine Surveyor: David Jones.
Foreman: C. Fergstad Sr.
Thickness of Seam: 6 ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S.E. ¼ of Sec. 30, Twp. 48, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5917.
Truck Mine.
Registered Trade Name: Eskimo Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1950.

George Shute & Partners
Mine No. 1524.

Mine Office: Dinant, Alberta.
Mine Manager: George Shute.
Mine Surveyor: David Jones.
Thickness of Seam: 5½ ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 8 & 9 of Sec. 7, Twp. 48, Rge. 19, W. 4th Meridian.
Coal Mining Lease Number: C.P.R. 546.
Truck Mine.
Registered Trade Name: Demay Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1937.

Alberta Coal Co. Ltd.—Mine No. 1603.

Authorized Capital: $200,000.00.
Name of President: D. Twomey Jr.
Name of Secretary: A. E. Burgess.
Mine Office: Camrose, Alberta.
General Manager: D. Twomey.
Mine Manager: R. B. Munn.
Mine Surveyor: P. R. Buesnel.
Foreman: J. Daintith.
Thickness of Seam: 3½ ft. to 5 ft.
Thickness of Cover: 25 ft. to 40 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 6, 10, 11 of Sec. 29, Twp. 46, Rge. 19, W. 4th Meridian.
Coal Mining Lease Numbers: S.L. 529, C.P.R. 602.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Camrose Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1943.

CARBON AREA

Alfred Fox—Mine No. 53.

Mine Office: Carbon, Alberta.
Mine Manager: Alfred Fox.
Mine Surveyor: David Jones.
Overman: Alfred Fox.
Thickness of Seam: 3½ ft.
Thickness of Cover: 185 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: S.W. ¼ of L.S. 3, Sec. 14, Twp. 29, Rge. 23, W. 4th Mer.
Coal Mining Lease Numbers: 516 S.L., 524 S.L.
Truck Mine.
Registered Trade Name: Carbon Sunrise Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1898.

A. A. McArthur—Mine No. 194

Mine Office: Box 47, Carbon, Alberta.
Mine Manager: A. A. McArthur.
Mine Surveyor: W. E. G. Hall.
Foreman: A. R. Sommerville.
Thickness of Seam: 4½ ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 6, 7, 8, 9, 10, 11 & 14, Sec. 9, Twp. 31, Rge. 22, West of 4th Meridian.
Coal Mining Lease Number: Freehold.
C.P.R. and Truck Mine.
Registered Trade Name: Knee Hill Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1909.

East Trochu Coal Co.—Mine No. 710

Mine Office: Trochu, Alberta.
Mine Manager: L. G. Yard.
Mine Surveyor: David Jones.
Overman: L. G. Yard.
Thickness of Seam: 6 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 10 of Sec. 14, Twp. 33, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5320.
Truck Mine.
Registered Trade Name: Troalta Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1917.

Ben Pickering & Sons—Mine No. 817

Mine Office: Ghost Pine Creek, Alberta.
Mine Manager: Ben Pickering.
Mine Surveyor: David Jones.
Foreman: B. Pickering.
Thickness of Seam: 5½ ft.
Thickness of Cover: 40 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 2 of Sec. 6, Twp. 31, Rge. 21, W. 4th Mer.
Coal Mining Lease Numbers: 5510, 414 R.A.
Truck Mine.
Registered Trade Name: Orkney Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1919.

Eric Reissig—Mine No. 921

Mine Office: Trochu, Alberta.
Mine Manager: E. Reissig.
Mine Surveyor: David Jones.
Overman: E. Reissig.
Fireboss: E. Reissig.
Thickness of Seam: 5½ ft.
Thickness of Cover: 85 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 5 ft. Depth of Slope: 2400 ft.
Location of Mine: L.S. 15 & 16 of Sec. 14, Twp. 33, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5464.
Registered Trade Name: Meadow Bank Coal
Character of Coal: Sub-bituminous.
Date of Opening: 1921.

East Carbon Coal Co. Ltd.—Mine No. 1060

Name of President: Ernest Fox.
Name of Directors: Ben Fox, Ernest Fox, Wm. Fox, Mrs. B. Lowther.
Mine Office: Carbon, Alberta.
Mine Manager: Ben Fox.
Mine Surveyor: David Jones.
Overman: Ben Fox.
Thickness of Seam: 4 ft.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 100 ft.
Location of Mine: L.S. 12 of Sec. 7, Twp. 29, Rge. 22, W. 4th Mer.
Coal Mining Lease Numbers: 5513, C.L.S. 255.
C.P.R. and Truck Mine.
Registered Trade Name: Reliable Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1922.

C. C. Campbell & Son—Mine No. 1226

Mine Office: Trochu, Alberta.
Mine Manager: C. C. Campbell.
Mine Surveyor: David Jones.
Overman: C. C. Campbell.
Thickness of Seam: 6 ft.
Thickness of Cover: 0 to 70 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: N.E. ¼ Sec. 29, Twp. 33, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 547 S.L.
Truck Mine.
Registered Trade Name: Campbell Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1926.

H. J. Halbert and F. Beierle
Mine No. 1283.

Mine Office: Trochu, Alberta.
Mine Manager: H. J. Halbert.
Mine Surveyor: David Jones.
Overman: H. J. Halbert.
Thickness of Seam: 5 ft.
Thickness of Cover: 96 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 90 ft.
Location of Mine: L.S. 8 of Sec. 14, Twp. 33, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 6125.
Truck Mine.
Registered Trade Name: H. B. Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1928.

Balogh Brothers—Mine No. 1359

Mine Office: Carbon, Alberta.
Mine Manager: A. Balogh.
Mine Surveyor: David Jones.
Overman: A. Balogh.
Thickness of Seam: 4 ft.
Thickness of Cover: 180 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope Size of Slope: 5 ft. x 8 ft. Depth of Slope: 125 ft.
Location of Mine: L.S. 16 of Sec. 12, Twp. 29, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 234 M.S.
Truck Mine.
Registered Trade Name: Arctic Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1931.

Nuttal & Davidson—Mine No. 1499

Mine Office: Three Hills, Alberta.
Mine Manager: F. Nuttal.
Mine Surveyor: David Jones.
Foreman: F. Nuttal.
Thickness of Seam: 4 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1 of Sec. 9, Twp. 31, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5257.
Truck Mine.
Registered Trade Name: Fire King Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1936.

CASCADE AREA

The Canmore Mines Ltd.—Mine No. 2

Authorized Capital: $1,000,000.00.
Name of President: Edmund Hayes.
Name of Directors: E. Hayes, J. E. A. Macleod, A. J. Macmillan, W. Wilson, G. F. Jewett, L. S. Headley, R. Morris.
Name of Secretary: J. E. A. Macleod.
Name of Treasurer: Louis S. Headley.
Mine Office: Canmore, Alberta.
General Manager: William Wilson.
Mine Manager: V. Mrokwia.
Mine Surveyor: W. J. Riva.
Overmen: J. Brown, A. Fox, S. Louhela.
Firebosses: W. Bell, A. Baroni, M. Carmichael, J. Crawford, C. Foster, R. Jackson, J. James, A. Kowal, A. Knudson, H. Musgrove, J. Miskow, H. Paavola, J. Riva, B. Rogers, A. Shellian, P. Zboya.
Thickness of Seam: 6 ft., 8 ft. & 10 ft.
Thickness of Cover: 0 to 2000 ft.
Inclination of Seam: 10 to 35 degrees.
Form of Opening: Slope. Size of Slope: 16 ft. x 8 ft. Depth of Slope: Rock Tunnel: 1000 ft. No. 4 Seam: 2400 ft. No. 5 Seam: 1100 ft.
Location of Mine: N.E. Pt. of L.S. 1, Sec. 29, Twp. 24, Rge. 10, W. 5th Mer.
Coal Mining Lease Numbers: S.L. 130, 131, 5847, 5557, 5999.
C.P.R. and Truck Mine.
Registered Trade Name: Canmore Coal.
Character of Coal: Bituminous.
Date of Opening: 1891.

Frank Wheatley & Sons—Mine No. 1244

Authorized Capital: $50,000.00.
Mine Office: Box 341, Banff, Alberta.
Mine Manager: F. M. Wheatley.
Mine Surveyor: L. C. Stevens.
Fireboss: J. W. Wheatley.
Thickness of Seam: 8 ft.
Thickness of Cover: 300 ft.
Inclination of Seam: 40 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 300 ft.
Location of Mine: L.S. 4 of Sec. 8, Twp. 26, Rge. 11, W. 5th Mer.
Coal Mining Lease Number: C.L.S. 9.
Truck Mine.
Registered Trade Name: Wheatley Brothers Coal.
Character of Coal: Bituminous.
Date of Opening: 1926.

CASTOR AREA

J. Tyrlik and S. Musat—Mine No. 251

Mine Office: Heisler, Alberta.
Mine Manager: Joe Tyrlik.
Mine Surveyor: David Jones.
Overman: Joe Tyrlik.
Thickness of Seam: 4½ ft.
Thickness of Cover: 62 ft.
Inclination of Seam: Horizontal.

Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 150 ft.
Location of Mine: L.S. 16 of Sec. 29, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5822, 5530.
C.N.R. Mine.
Registered Trade Name: Diamond G. Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1910.

James Chiswick—Mine No. 291

Mine Office: Gadsby, Alberta.
Mine Manager: James Chiswick.
Mine Surveyor: David Jones.
Thickness of Seam: 4½ ft.
Thickness of Cover: 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S. ½ of L.S. 11, Sec. 28, Twp. 39, Rge. 16, W. 4th Meridian.
Coal Mining Lease Number: 5093.
Truck Mine.
Registered Trade Name: Sunset Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1911.

O. V. Remillard—Mine No. 902

Mine Office: Castor, Alberta.
Mine Manager: O. V. Remillard.
Mine Surveyor: David Jones.
Overman: O. V. Remillard.
Thickness of Seam: 5 ft.
Thickness of Cover: 65 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 127 ft.
Location of Mine: L.S. 15 & 16 of Sec. 33, Twp. 37, Rge. 14, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 186.
Truck Mine.
Registered Trade Name: Remillard Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1921.

Battle River Coal Co. Ltd.—Mine No. 1046

Authorized Capital: $1,000,000.00.
Name of President: J. A. Brusset.
Name of Directors: J. B. Bonny, J. A. Scott, E. Connelly, J. A. Brusset, E. Rasson, J. Terray, M. Dhavernas.
Name of Secretary: J. A. Scott.
Name of Treasurer: H. M. Dancey.
Head Office: Blairmore, Alberta.
Mine Office: Halkirk, Alberta.
General Manager: W. Bird.
Mine Manager: E. J. Panchysyn.
Mine Surveyor: P. R. Buesnel.
Foreman: W. Jamieson.
Thickness of Seam: 8 ft.
Thickness of Cover: 45 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Sec. 20, Twp. 40, Rge. 15, W. 4th Meridian.
Coal Mining Lease Numbers: 5719, 5433, 5766.
C.P.R. and Truck Mine.
Registered Trade Name: Cordel Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1922.

Charles Strader—Mine No. 1062

Mine Office: Halkirk, Alberta.
Mine Manager: James Strader.
Mine Surveyor: D. Jones.
Overman: James B. Strader.
Thickness of Seam: 5 ft.
Thickness of Cover: 60 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 4 of Sec. 17, Twp. 39, Rge. 15, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 41.
Truck Mine.
Registered Trade Name: Esperanze Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1922.

J. H. Ainsworth—Mine No. 1232

Mine Office: Halkirk, Alberta.
Mine Manager: J. H. Ainsworth.
Mine Surveyor: D. Jones.
Overman: J. H. Ainsworth.
Thickness of Seam: 6 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 13 of Sec. 25, Twp. 40, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 478.
Truck Mine.
Registered Trade Name: Ainsworth Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1926.

B. J. Gerla & W. Runge—Mine No. 1248

Mine Office: Donalda, Alberta.
Mine Manager: B. J. Gerla.
Mine Surveyor: David Jones.
Overman: B. J. Gerla.
Fireboss: W. Runge.
Thickness of Seam: 5 ft.
Thickness of Cover: 110 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 80 ft.
Location of Mine: L.S. 10 & 11 of Sec. 29, Twp. 41, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: S.L. 534.
C.N.R. and Truck Mine.
Registered Trade Name: Success Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1926.

James Easton—Mine No. 1417

Mine Office: Castor, Alberta.
Mine Manager: James Easton.
Mine Surveyor: David Jones.
Overman: James Easton.
Thickness of Seam: 5 ft.
Thickness of Cover: 40 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 100 ft.
Location of Mine: L.S. 14 of Sec. 34, Twp. 37, Rge. 14, W. 4th Mer.
Coal Mining Lease Numbers: 6102, 5013.
Truck Mine.
Registered Trade Name: Burn-rite Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1933.

Oscar Olson—Mine No. 1435

Mine Office: Edberg, Alberta.
Mine Manager: Oscar Olson.
Mine Surveyor: David Jones.
Overman: Oscar Olson.
Thickness of Seam: 4½ ft.
Thickness of Cover: 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 30 ft.
Location of Mine: N. ½ L.S. 6, Sec. 2, Twp. 44, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: 5122.
Truck Mine.
Registered Trade Name: Rosebush Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1933.

Leonard Buckle—Mine No. 1441

Mine Office: Donalda, Alberta.
Mine Manager: L. Buckle.
Mine Surveyor: David Jones.
Overman: L. Buckle.
Thickness of Seam: 10 ft.
Thickness of Cover: 130 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 60 ft.
Location of Mine: L.S. 9 of Sec. 17, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 705 C.P.R.
Truck Mine.
Registered Trade Name: Black Emerald Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1933.

Forestburg Collieries Ltd.—Mine No. 1578

Authorized Capital: $20,000.00.
Name of President: Mayne Reid, Q.C.
Name of Directors: Mayne Reid, Q.C., Robert M. Jenkinson, William O. Parlee, Q.C., Merl Kelce, Cecil M. Guthrie, Roy O. Park.
Name of Secretary-Treasurer: R. M. Jenkinson.
Head Office: 410 Tegler Building, Edmonton, Alberta.
Mine Office: Forestburg, Alberta.
General Manager: John A. Stuart.
Mine Manager: Homer F. Bish.
Mine Surveyor: Robert Dunn.
Foreman: W. Bish.
Fireboss: Thomas Mitcheson.
Thickness of Seam: 6 ft.
Thickness of Cover: 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Locaton of Mine: Pts. of Twp. 40 & 41, Rge. 15 & 16.
Coal Mining Lease Numbers: 5365, 5624.
C.N.R. and Truck Mine.
Registered Trade Name: Diplomat Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1941.

J. J. Mills—Mine No. 1587

Mine Office: Heisler, Alberta.
Mine Manager: J. R. Mills.
Mine Surveyor: David Jones.
Overman: J. R. Mills.
Thickness of Seam: 6 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 75 ft.
Location of Mine: L.S. 5 of Sec. 22, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Numbers: 5976, 5425.
C.N.R. and Truck Mine.
Registered Trade Name: Eagle Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1942.

Stettler Coal Co. Ltd.—Mine No. 1614

Authorized Capital: $150,000.00.
Name of President: M. H. Neilson.
Name of Directors: M. H. Neilson, M. C. Neilson.
Name of Secretary: Lloyd Williams.
Mine Office: Stettler, Alberta.
Mine Manager: M. H. Neilson.
Mine Surveyor: David Jones.
Foreman: Mort Neilson.
Thickness of Seam: 8 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.E. ½ of L.S. 16, Sec. 26, Twp. 40, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: 2900.
Truck Mine.
Registered Trade Name: All-Fire Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1943.

N. MacPherson & D. Kroetch
Mine No. 1689

Mine Office: Heisler, Alberta.
Mine Manager: N. MacPherson.
Mine Surveyor: David Jones.
Overman: N. MacPherson.
Thickness of Seam: 7 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 15 ft.
Location of Mine: L.S. 8 of Sec. 21, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 685.
Truck Mine.
Registered Trade Name: Black Jade Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1949.

Dolanz, Dolanz & Strickland
Mine No. 1702

Authorized Capital: $20,000.00.
Name of President: Thomas Strickland.
Name of Directors: T. Strickland, I. Dolanz, S. Dolanz.
Name of Secretary: N. Dolanz.
Name of Treasurer: T. Strickland.
Mine Office: Heisler, Alberta.
Mine Manager: Eggie Dolanz.
Mine Surveyor: David Jones.
Overman: E. Dolanz.
Thickness of Seam: 12 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 130 ft.
Location of Mine: L.S. 3 & 4 of Sec. 27, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 692.
C.N.R. and Truck Mine.
Registered Trade Name: Palace Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1949.

Wisla Brothers—Mine No. 1713

Mine Office: Rosalind, Alberta.
Mine Manager: M. Wisla.
Mine Surveyor: David Jones.
Overman: M. Wisla.
Thickness of Seam: 3 ft.
Thickness of Cover: 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 6 ft. x 7 ft. Depth of Shaft: 60 ft.
Location of Mine: L.S. 2 of Sec. 8, Twp. 43, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 152.
Truck Mine.
Registered Trade Name: Rosalind Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1950.

William A. Jones—Mine No. 1718

Mine Office: Donalda, Alberta.
Mine Manager: William Jones.
Mine Surveyor: David Jones.
Overman: William Jones.
Thickness of Seam: 10 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 60 ft.
Location of Mine: L.S. 16 of Sec. 29, Twp. 42, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5969.
Truck Mine.
Registered Trade Name: Centennial Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1950.

CHAMPION AREA

Rhodes Brothers—Mine No. 136

Authorized Capital: $9,000.00.
Name of Secretary: Walter Rhodes.
Mine Office: Champion, Alberta.
Mine Manager: Cecil Rhodes.
Mine Surveyor: J. F. Hamilton.
Overman: Cecil E. Rhodes.
Thickness of Seam: 3 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope: 180 ft.
Location of Mine: N.E. ¼ L.S. 9 & 16 of Sec. 8, Twp. 15, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: H.B.C.
Truck Mine.
Registered Trade Name: Therriault Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1907.

Carlo Travaglia—Mine No. 1137

Mine Office: Champion, Alberta.
Mine Manager: Carlo Travaglia.
Mine Surveyor: J. F. Hamilton.
Overman: Carlo Travaglia.
Thickness of Seam: 4 ft.
Thickness of Cover: 75 ft.

Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 4½ ft. x 5 ft. Depth of Slope: 132 ft.
Location of Mine: Pts. of L.S. 2 & 3, Sec. 4, Twp. 16, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5523 and 5738.
Truck Mine.
Registered Trade Name: Smith Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1924.

P. Fontana & Sons—Mine No. 1509

Mine Office: Champion, Alberta.
Mine Manager: Peter Fontana.
Mine Surveyor: J. F. Hamilton.
Overman: Peter Fontana.
Fireboss: Elmo Fontana.
Thickness of Seam: 4 ft.
Thickness of Cover: 65 ft.
Inclination of Seam: 26 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 240 ft.
Location of Mine: L.S. 16 of Sec. 33, Twp. 15, Rge. 23, W. 4th Mer.
Coal Mining Lease Number: 5290.
Truck Mine.
Registered Trade Name: Champion Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1937.

COALSPUR AREA

Canadian Collieries (Dunsmuir) Ltd. Mine No. 771

Authorized Capital: $50,000.00.
Name of President: Norman R. Whittall.
Name of Directors: G. Kidd, Fred Brown, F. R. Graham, J. Boyd, H. Plommer.
Name of Secretary-Treasurer: S. V. Isaacson.
Head Office: Cumberland, B.C.
Mine Office: Foothills, Alberta.
General Manager: E. O. T. Simpson.
Mine Manager: William Morris.
Mine Surveyor: E. O. Olynek.
Overman: E. Griffiths.
Firebosses: J. Mitchell, P. Nicholson, E. MacLaren, J. Jones, W. Smillie.
Thickness of Seam: 8 ft.
Thickness of Cover: 800 ft.
Inclination of Seam: 22 degrees.
Form of Opening: Slope. Size of Slope: 12 ft. x 8 ft. Depth of Slope: 2350 ft.
Location of Mine: L.S. 2, 7, 10 & 15, Sec. 24, Twp. 47, Rge. 20, W. 5th Meridian.
Coal Mining Lease Numbers: 5343, 5344, 5806.
C.N.R. and Truck Mines.
Registered Trade Name: Foothills Coal.
Character of Coal: Bituminous.
Date of Opening: 1918.

Canadian Collieries (Dunsmuir) Ltd. Mine No. 846

Authorized Capital: $50,000.00.
Name of President: Norman R. Whittall.
Names of Directors: F. Ronald Graham, George Kidd, Fred B. Brown, John A. Boyd, Harry R. Plommer.
Name of Secretary-Treasurer: S. V. Isaacson.
Head Office: Union Bay, B.C.
Mine Office: Mercoal, Alberta.
General Manager: E. O. T. Simpson.
Mine Manager: R. G. Erikson.
Overman: J. Rochester, A. McIntyre, A. McQueen.
Firebosses: J. Parry, E. Fregren, J. Denholm, C. Zayezierski, W. Mazur, J. Lidgett, J. Keef, C. McMurtry, K. Wheat, F. Brown, S. Protti.
Thickness of Seam: 11 ft.
Thickness of Cover: 0 to 800 ft.
Inclination of Seam: 20 degrees to 45 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 12 ft. Depth of Slope: 1800 ft.
Location of Mine: L.S. 4 of Sec. 25, Twp. 48, Rge. 22, W. 5th Mer.
Coal Mining Lease Number: 1605.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: McLeod River Hard Coal.
Character of Coal: Bituminous.
Date of Opening: 1950.

Sterling-Coal Valley Mining Co. Ltd. Mine No. 1002

Authorized Capital: $1,000,000.00.
Name of Presdent: C. B. Munson.
Name of Directors: C. B. Munson, W. F. Stevenson, E. W. Roberts.
Name of Secretary-Treasurer: W. C. Willetts.
Head Office: 210 Barry Building, 10128 - 103 St., Edmonton, Alberta.
Mine Office: Coal Valley, Alberta.
Agent: W. F. Stevenson.
Mine Manager: A. A. Fraser.
Mine Surveyor: A. A. Fraser.
Foreman: M. Fortin.
Blasters: N. Lovenuik, J. Savignac.
Thickness of Seam: 300 ft.
Thickness of Cover: 0 to 110 ft.
Inclination of Seam: 40 degrees.
Form of Opening: Strip Mine.
Location of Mine: W½ of L.S. 10, Sec. 25, Twp. 47, Rge. 20, W. 5th Merdian.
Coal Mining Lease Numbers: 5414, 5415.
C.N.R. Mine.
Registered Trade Name: Cova Coal.
Character of Coal: Bituminous.
Date of Opening: 1922.

Bryan Mountain Coal Company Limited Mine No. 1157

Authorized Capital: $500,000.00.
Name of President: F. E. Reuben.
Name of Directors: F. E. Reuben, L. G. Chavignaud, C. P. Hotchkiss, C. H. Reid.
Name of Secretary-Treasurer: C. H. Reid.
Head Office: 10546 - 109 Street, Edmonton, Alberta.
Mine Office: Robb, Alberta.
General Manager: L. G. Chavignaud.
Mine Manager: R. Dalziel.
Mine Surveyor: David Smith.
Overman: W. James.
Firebosses: R. Voynovich, W. Gosney, J. Ferguson, H. Rhodes, E. Aloisio.
Thickness of Seam: 8½ ft.
Thickness of Cover: 20 ft. to 50 ft.
Inclination of Seam: 36 degrees.
Form of Opening: Slope. Size of Slope: 8 ft. x 12 ft. Depth of Slope: 760 ft.
Location of Mine: Pts. of Sec. 15, 16, 21, 22 of Twp. 49, Rge. 21, W. 5th Mer.
Coal Mining Lease Numbers: 5757, 5758, 5315.
C.N.R., C.P.R., Truck Mine.
Registered Trade Name: Bryan Mountain Hard Coal.
Character of Coal: Bituminous.
Date of Opening: 1950.

CROWSNEST AREA

West Canadian Collieries Limited Mine No. 87

Authorized Captal: $2,900,000.00.
Name of President: E. Rasson.
Name of Directors: Bernard, Blondel, Brusset, Cavrois, Faure, Decoster, Dunning, Beaubien, Houze-de L'Aulnoit.
Name of Secretary: G. H. Labyt.
Head Office: 833 Salisbury House, London Wall, London EC2, England.
Mine Office: Bellevue, Alberta.
General Manager: W. Bird.
Mine Manager: J. J. Kubin.
Mine Surveyor: J. R. Glover.
Overmen: A. Goodwin, S. Comin, A. Grant.
Firebosses: C. Woolney, J. Radford, J. Michaluk, J. R. McLeod, A. Emerson, E. Coates, J. J. Senycz, S. Kuban, J. Fortunaso, J. Pierzchala.
Thickness of Seam: 0 to 20 ft.
Thickness of Cover: 0 to 1000 ft.
Inclination of Seam: 0 to 90 degrees.
Form of Opening: Drift and Strip Mine.

Location of Mine: L.S. 9 & 10, Sec. 20, Twp. 7, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: M.S. 231.
C.P.R. and Truck Mine.
Registered Trade Name: Bellevue Coal.
Character of Coal: Bituminous.
Date of Opening: 1903.

Coleman Collieries Limited—Mine No. 88

Authorized Capital: $3,000,000.00.
Name of President: John Gordon.
Name of Directors: C. E. Tait, Eric Richardson, F. J. Harquail, H. Wilton-Clark.
Name of Secretary: R. Upton.
Name of Treasurer: Eric Richardson.
Mine Office: Coleman, Alberta.
General Manager: H. Wilton-Clark.
Mine Manager: W. B. Fraser.
Mine Surveyor: A. E. Graham.
Overmen: J. Marconi, E. Hill.
Firebosses: G. W. Marconi, B. Fontana, J. V. Fraser, J. P. McIntyre, J. Moore, P. Topak, L. Hotte, A. J. Phillips, R. Woods, J. Lowe.
Thickness of Seam: 5 ft. to 12 ft.
Thickness of Cover: Over 2000 ft.
Inclination of Seam: 30 degrees.
Form of Opening: Slope and Strip Mine. Size of Slope: 12 ft. x 10 ft. Depth of Slope: 3400 ft.
Location of Mine: L.S. 11, Sec. 8, Twp. 8, Rge. 4, W. 4th Mer.
Coal Mining Lease Number: 2886.
C.P.R. Mine.
Registered Trade Name: International Coal.
Character of Coal: Bituminous.
Date of Opening: 1903.

Beaver Mines Coal Co.—Mine No. 199

Authorized Capital: $10,000.00.
Mine Office: Beaver Mines, Alberta.
Mine Manager: John Maddison.
Mine Surveyor: F. W. Utley.
Overman: John Maddison.
Thickness of Seam: 6 ft.
Thickness of Cover: 70 ft.
Inclination of Seam: 30 degrees to 40 degrees.
Form of Opening: Drift.
Location of Mine: L.S. 10, Sec. 3, Twp. 6, Rge. 2, W. 5th Mer.
Coal Mining Lease Number: M.S. 213.
C.P.R. and Truck Mine.
Registered Trade Name: Beaver Mine Coal.
Character of Coal: Bituminous.
Date of Opening: 1909.

Coleman Collieries Limited—Mine No. 204

Authorized Capital: $3,000,000.00.
Name of President: John Gordon.
Name of Directors: C. E. Tait, Eric Richardson, F. J. Harquail, H. Wilton-Clark.
Name of Secretary: R. Upton.
Name of Treasurer: Eric Richardson.
Mine Office: Coleman, Alberta.
General Manager: H. Wilton-Clark.
Mine Manager: Wm. Goodwin.
Mine Surveyor: A. E. Graham.
Overmen; Edgar Allen, W. P. Lonsbury.
Firebosses: W. Anderson, R. Campbell, A. Galbraith, M. Kubica Jr., R. Morris, J. Ondrik, A. Panek, R. Parry, H. Urwin, L. Vasek.
Thickness of Seam: 4½ ft.
Thickness of Cover: 0 to 2400 ft.
Inclination of Seam: 35 degrees.
Form of Opening: Slope and Strip Mine. Size of Slope: 8 ft. x 12 ft. Depth of Slope: 4500 ft.
Location of Mine: S.W. ¼ L.S. 2 of Sec. 17, Twp. 8, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: C.L.S. 449.
Mine located on C.P.R.
Registered Trade Name: McGillivray Creek Coal.
Character of Coal: Bituminous.
Date of Opening: 1909.

Western Canadian Collieries Ltd.
Mine No. 396

Authorized Capital: $2,900,000.00.
Name of President: E. Rasson.
Name of Directors: Bernard, Blondel, Brusset, Cavrois, Faure, Decoster, Dunning, Beaubien, Houze-de L'Aulnoit.
Name of Secretary-Treasurer: G. H. Labyt.
Head Office: 833 Salisbury House, London Wall, London EC2, England.
Mine Office: Blairmore, Alberta.
General Manager: W. Bird.
Mine Manager: T. E. Morgan.
Mine Surveyor: D. Pozzi.
Overmen: M. Hamilton, L. Hucek, R. Tonge, D. McLafferty, I. Walker.
Firebosses: J. Patterson, S. Patterson, C. Miller, V. Blais, A. Amboresso, A. Tiberg, G. Gibson, R. Draper, G. Dudzich, J. McIssac, J. Zemik, O. Diamond, R. Blake.
Thickness of Seam: 5 ft. to 16 ft.
Thickness of Cover: 0 to 1000 ft.
Inclination of Seam: 40 degrees.
Form of Opening: Drift and Strip Mine.
Location of Mine: L.S. 10 of Sec. 2, Twp. 8, Rge. 4, W. 5th Mer.
Coal Mining Lease Numbers: C.L.S. 125, 506.
C.P.R. and Truck Mine.
Registered Trade Name: Greenhill Coal.
Character of Coal: Bituminous.
Date of Opening: 1913.

West Canadian Collieries Ltd.
Mine No. 1584

Authorized Capital: $2,900,000.00.
Name of President: E. Rasson.
Name of Directors: Bernard, Blondel, Brusset, Cavrois, Faure, Decoster, Dunning, Beaubien, Houze-de L'Aulnoit.
Name of Secretary: G. H. Labyt.
Head Office: 833 Salisbury House, London Wall, London EC2, England.
Mine Office: Blairmore, Alberta.
General Manager: W. Bird.
Mine Manager: M. Aschacker.
Mine Surveyor: J. R. Glover.
Overmen: R. Blake, C. MacDonald.
Firebosses: C. Dambois, K. MacDonald, H. McLafferty, J. Makin, E. Lawrence.
Thickness of Seam: 8 ft. to 16 ft.
Thickness of Cover: 100 ft. to 800 ft.
Inclination of Seam: 14 degrees to 70 degrees.
Form of Opening: Drift and Strip Mine.
Location of Mine: L.S. 15, Sec. 31, Twp. 6, Rge. 3, W. 5th Mer.
Coal Mining Lease Numbers: M.S. 94, 174.
C.P.R. and Truck Mine.
Registered Trade Name: Adanac Coal.
Character of Coal: Bituminous.
Date of Opening: 1942.

Coleman Collieries Limited—Mine No. 1695

Authorized Capital: $1,250,000.00.
Name of President: John Gordon.
Name of Directors: C. E. Tait, Eric Richardson, F. J. Harquail, H. Wilton-Clark.
Name of Secretary: R. Upton.
Name of Treasurer: Eric Richardson.
Mine Office: Coleman, Alberta.
General Manager: H. Wilton-Clark.
Mine Manager: Ivon Donkin.
Mine Surveyor: A. E. Graham.
Foremen: J. Shearer, O. Bohle, S. Paull.
Thickness of Seam: 100 ft. to 200 ft.
Thickness of Cover: 0 to 100 ft.
Inclination of Seam: 65 degrees to 70 degrees.
Form of Opening: Strip Mine.
Location of Mine: Sec. 12, Twp. 7, Rge. 6, W. 5th Mer.
Coal Mining Lease Number: 5710.
Mine located on C.P.R.
Registered Trade Name: Tent Mountain Coal.
Character of Coal: Bituminous.
Date of Opening: 1949.

Dawn Coal Mining Co.—Mine No. 1731

Authorized Capital: $14,000.00.
Mine Office: Pincher Creek, Alberta.
Mine Manager: Dan Pollo, Jr.
Mine Surveyor: D. T. Brown.
Overman: Dan Pollo, Jr.
Thickness of Seam: 7 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: 30 degrees.
Form of Opening: Drift.
Location of Mine: S.E. ¼ Sec. 9, Twp. 6, Rge. 2, W. 5th Mer.
Coal Mining Lease Number: C.M.S. 39Y18.
Truck Mine.
Registered Trade Name: Dawn Coal.
Character of Coal: Bituminous.
Date of Opening: 1953.

DRUMHELLER AREA

Midland Coal Mining Co. Ltd.
Mine No. 367

Authorized Capital: $50,000.00.
Name of President: Mrs. S. L. McMullen.
Name of Directors: Mrs. S. L. McMullen, S. G. McMullen, W. R. Sandercock.
Name of Secretary: S. G. McMullen.
Head Office: Drawer H. Drumheller, Alberta.
Mine Office: Midlandvale, Alberta.
General Manager: S. G. McMullen.
Mine Manager: Thomas Campbell.
Mine Surveyor: A. Hamilton.
Overman: A. Burrell.
Firebosses: S. Appleby, M. Bobrosky, W. Briggs, J. Ewing, E. Harris, W. Halowatiuk, H. Hulbert, W. Price, W. Roberts, A. Shields.
Thickness of Seam: 5 ft.
Thickness of Cover: 550 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 9 ft. x 19 ft. Depth of Shaft: 135 ft.
Location of Mine: L.S. 14 Sec. 9, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Numbers: 5068 and S.L. 550.
C.N.R., C.P.R., Truck Mine.
Registered Trade Name: Midland & Mercury Coals.
Character of Coal: Sub-bituminous.
Date of Opening: 1912.

Red Deer Valley Coal Co. Ltd.
Mine No. 402

Authorized Capital: $347,100.00.
Name of President: Wm. S. Howland.
Name of Directors: Wm. S. Howland, Mary A. Howland, Louise M. Howland, W. H. Patterson, U. S. Ansley.
Name of Secretary: W. H. Patterson, Q.C.
Head Office: Drumheller, Alberta.
Mine Office: Nacmine, Alberta.
General Manager: U. S. Ansley.
Mine Manager: A. Wilson.
Mine Surveyor: A. Wilson.
Overmen: J. Barrie, C. Currie.
Firebosses: I. Folden, C. Levesque, P. Goods, H. Roberts, G. Anderson, G. Biro, J. Gallagher, W. Jones, G. Cumberford, E. Hlasney, R. Kieth, R. Allen, J. Oxbury.
Thickness of Seam: 5½ ft.
Thickness of Cover: 190 ft. to 550 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 11 ft. x 7 ft. Depth of Slope 650 ft. at 17 degrees.
Location of Mine: L.S. 9 of Sec. 7, Twp. 29, Rge. 29, W. 4th Mer.
Coal Mining Lease Number: 5556.
C.N.R., C.P.R., Truck Mine.
Registered Trade Name: Glocoal.
Character of Coal: Sub-bituminous.
Date of Opening: 1913.

Century Coals Ltd.—Mine No. 422

Name of President: Brig. L. Patrick.
Head Office: Calgary, Alberta.
Mine Office: Drumheller, Alberta.
Agent: A. C. Hnatyshyn.
Mine Manager: Allan Hamilton.
Mine Surveyor: Allan Hamilton.
Overman: D. Mayoh.
Firebosses: W. Morse, R. Halbert, M. Trevethin, J. March, A. Courterelle, A. Thomson, W. Taylor, J. Whitehead.
Thickness of Seam: 4 ft.
Thickness of Cover: 600 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 12 ft. x 20 ft. Depth of Shaft: 166 ft.
Location of Mine: L.S. 5, Sec. 9, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 5572.
C.N.R., C.P.R., Truck Mine.
Registered Trade Name: Commander Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1914.

Star Coal Mines Limited—Mine No. 436

Authorized Capital: $600,000.00.
Name of President: J. R. Brodie.
Name of Directors: J. R. Brodie, F. H. Nord, C. F. Doerr.
Name of Secretary-Treasurer: C. F. Doerr.
Head Office: Aerial, Alberta.
Mine Office: Aerial, Alberta.
Superintendent: R. Richards.
Mine Manager: J. T. Burton.
Mine Surveyor: R. Richards.
Overman: H. Looten.
Firebosses: I. C. Radocy, E. M. Davies, P. Ludwig, J. Zambo, W. Strecker, J. Vredik.
Thickness of Seam: 6½ ft.
Thickness of Cover: 500 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: S.E. ¼ L.S. 7, Sec. 28, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Numbers: 5104, 5105.
C.N.R., C.P.R.
Registered Trade Name: Star Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1914.

Brilliant Coal Company
Mine No. 1258

Authorized Capital: $300,000.00.
Name of President: J. A. Sandino.
Mine Office: Drumheller, Alberta.
General Manager: J. A. Sandino.
Mine Manager: R. Dunn.
Mine Surveyor: L. C. Stevens.
Overman: J. Saunt.
Firebosses: F. Elkes, A. Armstrong.
Thickness of Seam: 6 ft.
Thickness of Cover: 400 ft. to 450 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft and Slope. Size of Shaft: 8 ft. x 12 ft. Depth of Shaft: 120 ft. Size of Slope: 6 ft x 8 ft. Depth of Slope: 450 ft.
Location of Mine: L.S. 15, Sec. 10, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Numbers: 5045, 5282, S.L. 511.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Brilliant Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1927.

Saskatchewan Federated Co-ops Ltd.
Mine No. 1421

Authorized Capital: $10,000,000.00.
Name of President: G. Urwin.
Name of Directors: H. C. Watson, R. H. Boyer, W. E. Mills, H. Lawrence, O. Herde, L. L. Lloyd, L. J. Bright, G. Baker, G. Urwin, F. S. Coffey, C. R. Smith, W. A. Johnson.
Name of Secretary: H. L. Fowler.
Name of Treasurer: E. D. Stewart.
Head Office: Saskatoon, Saskatchewan.
Mine Office: Drumheller, Alberta.
General Manager: H. L. Benson.
Mine Manager: I. N. Potter.
Mine Surveyor: J. Robertson.
Overman: J. Farmer.

Firebosses: N. Blackett, F. Keough, J. Chuippi, E. Farmer, J. Taylor, H. Darbyshire, J. Jungen.
Thickness of Seam: 4 ft to 9 ft.
Thickness of Cover: 100 ft. to 300 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft and Slope. Size of Shaft: 10 ft. x 15 ft. Depth of Shaft: 89 ft. Size of Slope: 7 ft. x 11 ft. Depth of Slope: 89 ft.
Location of Mine: L.S. 4, 5, 12 of Sec. 14, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 5603.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Hy-Grade Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1933.

Century Coals Limited—Mine No. 1484

Name of President: Lorraine Patrick.
Head Office: 2410 Fourth Street S.W., Calgary, Alberta.
Mine Office: East Coulee, Alberta.
Mine Manager: Hugh Crawford.
Mine Surveyor: A. C. Hnatyshyn.
Overman: Stanley Mather.
Firebosses: A. James, W. Koehler, V. Lagunoff, S. Olesky, W. Koehler, P. Premoroko, B. Waggoner, John Young, H. Looten, R. Gurtler, P. Timm.
Thickness of Seam: 5 ft.
Thickness of Cover: 200 ft. to 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: N.W. ¼ of L.S. 13, Sec. 21, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 534A, 601
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: New Wildfire Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1935.

Murray Collieries Limited—Mine No. 1491

Authorized Capital: $100,000.00.
Name of Directors: H. K. Reed, D. C. McVeigh.
Mine Office: East Coulee, Alberta.
Mine Manager: H. C. MacKinnon.
Mine Surveyor: L. C. Stevens.
Overman: W. L. Shephard.
Firebosses: J. MacKenzie, W. Herman, H. M. Ramsay, A. Sladek, W. H. Mullinger, R. Anderson, R. Steven, J. Biro, G. E. Anderson.
Thickness of Seam: 5½ ft.
Thickness of Cover: 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: S.E. ¼ of Sec. 29, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 539.
C.N.R., C.P.R, and Truck Mine.
Registered Trade Name: New Murray Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1936.

Aetna Coals Limited—Mine No. 1511

Authorized Capital: $50,000.00.
Name of President: J. J. O'Dwyer.
Name of Director: M. A. O'Dwyer.
Head Office: Drumheller, Alberta.
Mine Office: Cambria, Alberta.
General Manager: M. A. O'Dwyer.
Mine Manager: W. Sarsfield.
Mine Surveyor: A. Hamilton.
Overman: W. Sarsfield.
Thickness of Seam: 7 ft.
Thickness of Cover: 0 to 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope and Strip Mine. Size of Slope: 14 ft. x 7 ft. Depth of Slope: 100 ft.
Location of Mine: L.S. 1 of Sec. 22, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Numbers: 6108, 5039.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Aetna Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1937.

The Minute Coal Co.—Mine No. 1520

Name of Directors: J. Gerodo, M. G. Tanner.
Mine Office: Box 991, Drumheller, Alberta.
Mine Manager: M. G. Tanner.
Mine Surveyor: A. G. Macaulay.
Thickness of Seam: 4 ft.
Thickness of Cover: 150 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 3, 6, 11 of Sec. 14, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 2793.
C.N.R. and Truck Mine.
Registered Trade Name: Good Quality Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1937.

Wayne Coal Co.—Mine No. 1570

Authorized Capital: $10,000.00.
Name of President: J. J. O'Dwyer.
Name of Director: M. A. O'Dwyer.
Name of Treasurer: M. A. O'Dwyer.
Mine Office: Wayne, Alberta.
General Manager: J. J. O'Dwyer.
Mine Manager: J. Blair.
Mine Surveyor: A. Hamilton.
Overman: J. Blair.
Thickness of Seam: 8 ft.
Thickness of Cover: 30 ft. to 350 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 14 ft. x 8 ft. Depth of Slope: 140 ft.
Location of Mine: N.E. ¼ L.S. 8, Sec. 7, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: Freehold.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Sovereign Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1940.

Monarch Coal Mining Company Ltd.
Mine No. 1573.

Authorized Capital: $311,500.00.
Name of President: E. A. Lovett.
Name of Directors: E. A. Lovett, H. R. Narraway, O. I. Gilbert, T. C. Boyd, D. McNeill.
Name of Secretary-Treasurer: H. R. Narraway.
Head Office: 1503 - 15th Ave. West, Calgary, Alberta.
Mine Office: East Coulee, Alberta.
General Superintendent: T. Smith.
Mine Manager: S. Douglas.
Mine Surveyor: T. Smith.
Overmen: J. Harries, W. Menzies.
Firebosses: J. Barich, G. Unsworth, R. Cowan, A. Wolff, F. Ellison, J. Boyce, M. Van de Kinder.
Thickness of Seam: 5 ft.
Thickness of Cover: 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 1 of Sec. 20, Twp. 27, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 587.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Western Monarch Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1940.

H. S. Chambers—Mine No. 1599

Mine Office: Delia, Alberta.
Mine Manager: H. S. Chambers.
Mine Surveyor: A. G. Macaulay.
Foreman: H. S. Chambers.
Thickness of Seam: 3 ft.
Thickness of Cover: 25 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 12 of Sec. 23, Twp. 28, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5458.
Truck Mine.
Registered Trade Name: Burn-Brite Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1943.

J. Wakaruk—Mine No. 1655

Name of President: John Wakaruk.
Name of Directors: F. Zayac, W. Walker, G. Wakaruk.
Name of Secretary: John Wakaruk.
Name of Treasurer: G. Wakaruk.
Mine Office: Drumheller, Alberta.
Mine Manager: G. Wakaruk.
Mine Surveyor: A. G. Macaulay.
Overman: G. Wakaruk.
Firebosses: J. Wakaruk, W. Walker.
Thickness of Seam: 5 ft.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 65 ft.
Location of Mine: W. & E. ½ L.S. 9 & 10 of Sec. 22, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Numbers: 5593, 6022.
Truck Mine.
Registered Trade Name: Cozy Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1947.

Mark Sands & Partners—Mine No. 1666

Name of President: Mark Sands.
Name of Secretary-Treasurer: W. H. Brown
Mine Office: Rosedale, Alberta.
Mine Manager: E. H. Morgan.
Mine Surveyor: A. Hamilton.
Foreman: E. H. Morgan.
Thickness of Seam: 3 ft.
Thickness of Cover: 10 ft to 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16 of Sec. 16, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 754.
Truck Mine.
Registered Trade Name: Subway Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1947.

Victor Leonhardt—Mine No. 1668

Mine Office: Drumheller, Alberta.
Mine Manager: Victor Leonhardt.
Mine Surveyor: Allan Hamilton.
Foreman: Victor Leonhardt.
Thickness of Seam: 2 ft.
Thickness of Cover: 10 ft. to 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 3 of Sec. 16, Twp. 29, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: 5897.
Truck Mine.
Registered Trade Name: Lion Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1948.

Joy Coal Mining Co. Ltd.—Mine No. 1669

Name of Partners: John Kushnir, Adolf Skinberg, Warren Young, Sr.
Name of Secretary - Treasurer: Harold Brooks.
Head Office: Cambria, Alberta.
Mine Office: Rosedale, Alberta.
General Manager: Warren Young, Sr.
Mine Manager: John Conlin.
Mine Surveyor: Allan Hamilton.
Overman: John Conlin.
Firebosses: John Kushnir, Warren Young, Sr.
Thickness of Seam: 3 ft.
Thickness of Cover: 300 ft. to 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 11, 13, 14 of Sec. 18, Twp. 28, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 668.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Sunshine Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1948.

Joe Ostrowski—Mine No. 1725

Mine Office: East Coulee, Alberta.
Mine Manager: Joe Ostrowski.
Mine Surveyor: Allan Hamilton.
Foreman: Joe Ostrowski.
Thickness of Seam: 5 ft.
Thickness of Cover: 20 ft. to 400 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N½ L.S. 2 & 7, Sec. 23, Twp. 28, Rge. 18, W. 4th Mer.
Coal Mining Lease Number: 5967.
Truck Mine.
Registered Trade Name: Leader Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1952.

Premier Coal Co.—Mine No. 1726

Name of Partners: G. W. Briggs, T. Harrison.
Name of Secretary: J. P. Clarke.
Mine Office: Drumheller, Alberta.
Mine Manager: G. W. Briggs.
Mine Surveyor: A. Hamilton.
Foreman: G. W. Briggs.
Thickness of Seam: 5 ft.
Thickness of Cover: 8 ft. to 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16 of Sec. 3, Twp. 29, Rge. 20, W. 4th Mer.
Coal Mining Lease Number: 6051.
C.N.R. and Truck Mine.
Registered Trade Name: Premier Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1952.

EDMONTON AREA

Sundance Mines Limited—Mine No. 129

Authorized Capital: $20,000.00.
Name of President: Paul H. Cote.
Names of Directors: P. H. Cote, and Dr. L. P. Mousseau.
Name of Secretary: P. E. Poirier.
Head Office: 526 Tegler Building, Edmonton, Alberta.
Mine Office: Cardiff, Alberta.
Mine Manager: P. H. Cote.
Mine Surveyor: L. C. Stevens.
Foreman: G. Vranas.
Thickness of Seam: 8 ft.
Thickness of Cover: 30 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L. S. 3 & 6 of Sec. 24, Twp. 55, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: 5669.
C.N.R., C.P.R., N.A.R., and Truck Mine.
Registered Trade Name: Suncole.
Character of Coal: Sub-bituminous.
Date of Opening: 1907.

Mike Vitaly—Mine No. 1098

Mine Office: Namao, Alberta.
Mine Manager: Joseph Vitaly.
Mine Surveyor: L. C. Stevens.
Overman: Joseph Vitaly.
Thickness of Seam: 6 ft. to 8 ft.
Thickness of Cover: 98 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 8 ft. x 7 ft. Depth of Slope: 30 ft.
Location of Mine: L.S. 4 of Sec. 31, Twp. 54, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: Pat. G. S. Long.
Truck Mine.
Registered Trade Name: King Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1923.

Edmonton Collieries Limited
Mine No. 1266

Authorized Capital: $20,000.00.
Name of President: W. Gordon MacKay.
Names of Directors: W. Gordon MacKay, H. W. Layton, C. C. Down.
Name of Secretary-Treasurer: Harold W. Layton.
Head Office: 10322 - 105th Street, Edmonton, Alberta.
Mine Office: Namao, Alberta.
General Manager: W. Gordon MacKay.

Mine Manager: A. Crawford.
Mine Surveyor: L. C. Stevens.
Overman: A. Johnstone.
Thickness of Seam: 8 ft.
Thickness of Cover: 85 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 375 ft.
Location of Mine: L.S. 14, Sec. 36, Twp. 54, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 596.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Black Gem Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1927.

Samis Collieries Ltd.—Mine No. 1316

Head Office: 203 Wallace Building, Edmonton, Alberta.
Mine Office: Namao, Alberta.
Agent: K. E. Samis.
Mine Manager: A. B. Lister.
Mine Surveyor: L. C. Stevens.
Overman: A. B. Lister.
Thickness of Seam: 14 ft.
Thickness of Cover: 55 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 6 ft. Depth of Slope: 150 ft.
Location of Mine: S.W. ¼ L.S. 5 of Sec. 36, Twp. 54, Rge. 25, W. 4th Mer.
Coal Mining Lease Numbers: 6018, 5539.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Samis Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1929.

Riverdale Coals Limited—Mine No. 1463

Authorized Capital: $20,000.00.
Name of President: C. K. Brzuskiewicz.
Name of Directors: M. Churoski, S. Brzuskiewicz.
Name of Secretary-Treasurer: J. Mazolewski.
Head Office: 10451 - 77 Street, Edmonton, Alberta.
Mine Office: Namao, Alberta.
General Manager: C. K. Brzuskiewicz.
Mine Manager: R. Stevenson.
Mine Surveyor: D. Jones.
Overman: R. Stevenson.
Fireboss: S. Brzuskiewicz.
Thickness of Seam: 5 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift. Size of Shaft: 5 ft. x 6 ft. Depth of Shaft: 100 ft.
Location of Mine: S.W. ¼ of Sec. 8, Twp. 55, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: Freehold.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Riverdale Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1934.

Egg Lake Coal Co. Ltd.—Mine No. 1582

Mine Office: Morinville, Alberta.
Mine Manager: H. Paepe.
Mine Surveyor: David Jones.
Foreman: Frank A. Fellows.
Thickness of Seam: 6 ft.
Thickness of Cover: 24 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.E. ¼ of L.S. 13 & 14, Sec. 36, Twp. 56, Rge. 26, W. 4th Mer.
Coal Mining Lease Number: 5600.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Egg Lake Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1939.

J. B. Starky Co. Ltd.—Mine No. 1626

Authorized Capital: $250,000.00.
Name of President: J. B. Starky.
Name of Directors: J. B. Starky, E. A. Mills.
Name of Secretary: E. A. Mills.
Head Office: 10631 - 92nd Street, Edmonton, Alberta.
Mine Office: R.R. 2, St. Albert.
Agent: J. B. Starky.
Mine Manager: W. T. Worthington, Sr.
Mine Surveyor: W. T. Worthington, Jr.
Firebosses: H. Wales, J. McMillan, W. Kyskow, E. Fawcett.
Thickness of Seam: 8 ft.
Thickness of Cover: 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft and Slope. Size of Shaft: 8 ft. x 12 ft. Depth of Shaft: 75 ft. Size of Slope: 6 ft. x 8 ft. Depth of Slope: 215 ft.
Location of Mine: S.W. ¼ L.S. 4, Sec. 36, Twp. 54, Rge. 25, W. 4th Mer.
Coal Mining Lease Numbers: 5537, 610, 652.
N.A.R. and Truck Mine.
Registered Trade Name: Star-Key Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1945.

Beverly Coal Limited—Mine No. 1627

Mine Office: Carbondale, Alberta.
Mine Manager: Wm. Knight.
Mine Surveyor: L. C. Stevens.
Foreman: Wm. Knight.
Thickness of Seam: 6 ft.
Thickness of Cover: 69 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S.E. ¼ of Sec. 7, Twp. 55, Rge. 24, W. 4th Mer.
Coal Mining Lease Number: C.P.R.
C.N.R. and Truck Mine.
Registered Trade Name: Carbondale Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1945.

Blue Point Mine—Mine No. 1628

Mine Office: Box 2024, South Edmonton, Alberta.
General Manager: M. Sinoski.
Mine Manager: Fred Ewing.
Mine Surveyor: L. C. Stevens.
Overman: Fred Ewing.
Fireboss: Fred Ewing.
Thickness of Seam: 4 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Shaft. Size of Shaft: 9 ft. x 9 ft. Depth of Shaft: 100 ft.
Location of Mine: L.S. 15, Sec. 23, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Numbers: C.P.R. 578, 592.
Truck Mine.
Registered Trade Name: Blue Point Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1945.

C. F. MacLachlan—Mine No. 1632

Head Office: 10502 - 134 Street, Edmonton. Alberta.
Mine Office: Ardrossan, Alberta.
Mine Manager: C. F. MacLachlan.
Mine Surveyor: L. C. Stevens.
Foreman: Mel Olson.
Thickness of Seam: 5 ft.
Thickness of Cover: 24 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. ¼ of L.S. 8 & 9, Sec. 2, Twp. 53, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5542.
Truck Mine.
Registered Trade Name: Beaver Hills Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1945.

Morinville Collieries Ltd.—Mine No. 1635

Authorized Capital: $40,000.00.
Name of President: John Camarata.
Name of Directors: John Camarata, J Schafers, J. O. C. McDonald.
Name of Secretary: J. O. C. McDonald.
Name of Treasurer: John Schafers.
Mine Office: Morinville, Alberta.
Mine Manager: John Camarata.
Mine Surveyor: L. C. Stevens.
Overman: J. McDonald.

Thickness of Seam: 7 ft.
Thickness of Cover: 55 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 175 ft.
Location of Mine: L.S. 1 of Sec. 32, Twp. 55, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: 5565.
C.N.R., C.P.R., and Truck Mine.
Registered Trade Name: Spitfire Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1945.

A. Horkulak—Mine No. 1641

Mine Office: Box 4092, South Edmonton, Alberta.
Mine Manager: A. Horkulak.
Mine Surveyor: L. C. Stevens.
Overman: A. Horkulak.
Thickness of Seam: 5 ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 7 ft. Depth of Slope: 90 ft.
Location of Mine: Pts. of L.S. 9 & 16, Sec. 26, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Numbers: 5520, 638.
Truck Mine.
Registered Trade Name: Rabbit Hill Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1946.

J. G. Mucha—Mine No. 1684

Authorized Capital: $15,000.00.
Mine Office: Box 4044, South Edmonton, Alberta.
Mine Manager: J. G. Mucha.
Mine Surveyor: L. C. Stevens.
Foreman: J. Mucha.
Thickness of Seam: 2 ft.
Thickness of Cover: 26 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L. S. 10 & 11, Sec. 25, Twp. 51, Rge. 25, W. 4th Mer.
Coal Mining Lease Numbers: 622, 623, 637 C.P.R.
Truck Mine.
Registered Trade Name: Bright Service Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1948.

Adelard Houle—Mine No. 1696

Mine Office: Morinville, Alberta.
Mine Manager: A. Houle.
Mine Surveyor: L. C. Stevens.
Foreman: A. Houle.
Thickness of Seam: 6 ft.
Thickness of Cover: 18 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Pt. of Sec. 36, Twp. 56, Rge. 26, W. 4th Mer.
Coal Mining Lease Number: 5707.
Truck Mine.
Registered Trade Name: Mearns Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1949.

Banner Coals Ltd.—Mine No. 1724

Authorized Capital: $20,000.00.
Name of President: Paul H. Cote.
Name of Directors: P. H. Cote, Dr. L. P. Mousseau.
Name of Secretary: P. E. Poirier.
Head Office: 526 Tegler Building, Edmonton, Alberta.
Mine Office: Cardiff, Alberta.
General Manager: P. H. Cote.
Mine Manager: George Vranas.
Mine Surveyor: L. C. Stevens.
Foreman: G. Vranas.
Thickness of Seam: 9 ft.
Thickness of Cover: 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 2 of Sec. 24 and L.S. 15 of Sec. 13, Twp. 55, Rge. 25, W. 4th Mer.
Coal Mining Lease Numbers: 6030, C.P.R. 740.
C.N.R., C.P.R., N.A.R. and Truck Mine.
Registered Trade Name: New Penn Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1951.

Red Hot Coal Limited—Mine No. 1727

Authorized Capital: $21,000.00.
Name of President: W. Fridel.
Name of Directors: W. Fridel, J. Lang, J. Fridel.
Name of Secretary-Treasurer: J. Lang.
Head Office: 10659 - 93rd Street, Edmonton, Alberta.
General Manager: W. Fridel.
Mine Manager: A. Park.
Mine Surveyor: L. C. Stevens.
Overman: A. Park.
Thickness of Seam: 7 ft. 10 in.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6½ ft. x 7 ft. Depth of Slope: 275 ft.
Location of Mine: S.W. ¼ of Sec. 13, Twp. 52, Rge. 25, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 742.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Red Hot Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1952.

GLEICHEN AREA

Blackfoot Indians—Mine No. 72a

Mine Office: Gleichen, Alberta.
General Manager: W. P. B. Pugh.
Mine Manager: T. Marshall.
Mine Surveyor: W. E. G. Hall.
Thickness of Seam: 5 ft.
Thickness of Cover: 150 ft. to 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: N.W. ¼ of Sec. 6, Twp. 21, Rge. 20, W. 4th Mer.
Truck Mine.
Character of Coal: Sub-bituminous.
Date of Opening: 1902.

C. H. Fleischer & R. H. Buzzard
Mine No. 1431

Mine Office: Box 34, Rosebud, Alberta.
Mine Manager: R. H. Buzzard.
Mine Surveyor: David Jones.
Overman: C. E. Smith.
Fireboss: C. E. Smith.
Thickness of Seam: 3 ft.
Thickness of Cover: 20 ft. to 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 6 ft. x 5 ft. Depth of Slope, 30 ft.
Location of Mine: L.S. 3 & 6 of Sec. 29, Twp. 26, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 704.
Truck Mine.
Registered Trade Name: Consumer's Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1933.

William McMillan—Mine No. 1521

Mine Office: Box 44, Rosebud, Alberta.
Mine Manager: Alex McMillan.
Mine Surveyor: David Jones.
Overman: J. Hamilton.
Fireboss: J. Hamilton.
Thickness of Seam: 3½ ft.
Thickness of Cover: 100 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope: 140 ft.
Location of Mine: L.S. 14 & 15, Sec. 20, Twp. 26, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 664.
Truck Mine.
Registered Trade Name: Supreme of the Valley Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1937.

HALCOURT AREA

Baldwin Collieries Ltd.—Mine No. 651

Mine Office: Grande Prairie, Alberta.
Mine Manager: J. N. Baldwin.
Mine Surveyor: L. C. Stevens.
Overman: F. Gibney.
Thickness of Seam: 3 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift. Size of Shaft: 4½ ft. x 4½ ft. Depth of Shaft: 90 ft.
Location of Mine: L.S. 15, Sec. 35, Twp. 70, Rge. 7, W. 6th Mer.
Coal Mining Lease Numbers: 6020, 5461, 2737.
Truck Mine.
Registered Trade Name: Globe Coal.
Character of Coal: Bituminous.
Date of Opening: 1916.

Michael Romanuik—Mine No. 1704

Mine Office: Beaverlodge, Alberta.
Mine Manager: Michael Romanuik.
Mine Surveyor: L. C. Stevens.
Foreman: M. Romanuik.
Thickness of Seam: 2 ft.
Thickness of Cover: 18 ft. to 24 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. & S. ½ of L.S. 3 & 6, Sec. 21, Twp. 70, Rge. 10, W. 6th Mer.
Coal Mining Lease Number: 5831.
Truck Mine.
Registered Trade Name: Burn E.Z. Coal.
Character of Coal: Bituminous.
Date of Opening: 1949.

LETHBRIDGE AREA

A. Razzolini—Mine No. 56

Mine Office: Magrath, Alberta.
Mine Manager: A. Razzolini.
Mine Surveyor: J. F. Hamilton.
Overman: A. Razzolini.
Thickness of Seam: 3½ ft.
Thickness of Cover: 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 5 ft. x 6 ft. Depth of Slope: 30 ft.
Location of Mine: L.S. 3, Sec. 7, Twp. 7, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: Pat. G. Russell.
Truck Mine.
Registered Trade Name: The Baker Coal.
Character of Coal: Bituminous.
Date of Opening: 1902.

J. A. S. Wukusich—Mine No. 738

Head Office: 1406 - 3rd Avenue, South, Lethbridge, Alberta.
Mine Office: Lethbridge, Alberta.
Mine Manager: J. A. S. Wukusich.
Mine Surveyor: J. F. Hamilton.
Overman: J. A. S. Wukusich.
Thickness of Seam: 2 ft.
Thickness of Cover: 20 to 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 2 & 7, Sec. 11, Twp. 8, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5522.
Truck Mine.
Registered Trade Name: Santa-Maria Coal.
Character of Coal: Bituminous.
Date of Opening: 1909.

George Rollingson & Son—Mine No. 889

Mine Office: Box 432, Lethbridge, Alberta.
Mine Manager: George Rollingson.
Mine Surveyor: J. F. Hamilton.
Overman: George Rollingson.
Thickness of Seam: 2 ft.
Thickness of Cover: 300 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: E. & W ½ of L.S. 15 & 16, Sec. 2, Twp. 8, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5768.
Registered Trade Name: Whoopup Coal.
Character of Coal: Bituminous.
Date of Opening: 1921.

Steve Kocsis & Steve Varga
Mine No. 1086

Mine Office: Lethbridge, Alberta.
Mine Manager: Steve Kocsis.
Mine Surveyor: J. F. Hamilton.
Overman: Steve Kocsis.
Thickness of Seam: 4 ft.
Thickness of Cover: 15 ft. to 75 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift. Size of Shaft: 4 ft. x 4 ft. Depth of Shaft: 15 ft.
Location of Mine: L.S. 8 & 9, Sec. 7, Twp. 7, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 6112.
Truck Mine.
Registered Trade Name: Steve's Mine.
Character of Coal: Bituminous.
Date of Opening: 1923.

Lethbridge Collieries Limited
Mine No. 1263

Authorized Capital: $1,400,000.00.
Name of President: Leslie Munroe.
Name of Directors: Leslie Munroe, E. A. Lovett, G. R. Whitmore, A. R. Dingman.
Name of Secretary: C. T. Webb.
Name of Treasurer: Earl R. Johnson.
Head Office: 137 - 9th Avenue East, Calgary, Alberta.
Mine Office: Lethbridge, Alberta.
General Manager: J. M. Davidson.
Mine Manager: John Brady.
Mine Surveyor: R. D. Livingstone.
Overman: Daniel Crabb.
Firebosses: S. Yorko, A. Birse, J. C. Macaulay, J. Jensen, W. Strickland, J. Kovacs, J. Olah, I. Ruabon, W. Luala.
Thickness of Seam: 5 ft.
Thickness of Cover: 263 ft.
Inclination of Seam: Dip 2 degrees N., 56 degrees W.
Form of Opening: Shaft. Size of Shaft: 9 ft. x 24 ft. Depth of Shaft: 263 ft.
Location of Mine: L.S. 11 of Sec. 30, Twp. 10, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: M.S. 983.
C.P.R. Mine.
Registered Trade Name: Cadillac Coal.
Character of Coal: Bituminous.
Date of Opening: 1927.

Lethbridge Collieries Limited
Mine No. 1464

Authorized Capital: $1,400,000.00.
Name of President: Leslie Munroe.
Name of Directors: Leslie Munroe, E. A. Lovett, G. R. Whitmore, A. R. Dingman.
Name of Secretary: C. T. Webb.
Name of Treasurer: Earl R. Johnson.
Head Office: 137 - 9th Avenue East, Calgary, Alberta.
Mine Office: Lethbridge, Alberta.
General Manager: J. M. Davidson.
Mine Manager: A. G. Donaldson.
Mine Surveyor: R. D. Livingstone.
Overman: H. Tyrer.
Firebosses: J. Stewart, J. Brugos, D. Coutts, R. Dobson, G. Wrystok, J. Peta, J. Chemmotti, J. Kosmaniuk, L. Ridgeway, J. Bridolli.
Thickness of Seam: 4 ft.
Thickness of Cover: 400 ft.
Inclination of Seam: 1 in 75, N 8 degrees W.
Form of Opening: Shaft. Size of Shaft: 9 ft. x 18 ft. and 11 ft. x 19 ft. Depth of Shaft: 359 ft.
Location of Mine: L.S. 3 of Sec. 2, Twp. 9, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 524.
C.P.R. Mine.

Registered Trade Name: Galt Coal.
Character of Coal: Bituminous.
Date of Opening: 1934.

J. J. Hamilton Coal Co.—Mine No. 1581

Authorized Capital: $20,000.00.
Head Office: 413 - 8th Street South, Lethbridge, Alberta.
Mine Office: Lethbridge, Alberta.
Mine Manager: J. J. Hamilton.
Mine Surveyor: J. F. Hamilton.
Overman: E. Tyrer.
Firebosses: S. Lesson, A. Koshman.
Thickness of Seam: 4 ft.
Thickness of Cover: 470 ft.
Inclination of Seam: 2 degrees N.W.
Form of Opening: Shaft. Size of Shaft: 9 ft. x 8 ft. Depth of Shaft: 235 ft.
Location of Mine: L.S. 5, 6, 10, 12 and 15 of Sec. 24, Twp. 9, Rge. 22, W. 4th Mer.
Coal Mining Lease Number: 5370.
C.P.R. and Truck Mine.
Registered Trade Name: Federal Coal.
Character of Coal: Bituminous.
Date of Opening: 1941.

L. C. McLain—Mine No. 1685

Mine Office: Magrath, Alberta.
Mine Manager: Thomas Minor.
Mine Surveyor: J. F. Hamilton.
Foreman: T. Minor.
Thickness of Seam: 3½ ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: S.W. ¼ L.S. 1 & 2, Sec. 18, Twp. 7, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: Indian Reserve.
Truck Mine.
Registered Trade Name: M. & M. Coal.
Character of Coal: Bituminous.
Date of Opening: 1948.

MOUNTAIN PARK AREA

Luscar Coals Limited—Mine No. 905

Authorized Capital: $650,000.00.
Name of President: Alec M. Mitchell.
Name of Directors: Alec M. Mitchell, Sir Harold P. Mitchell, A. C. Dunn, M.E., Mayne Reid, Q.C., Wm. O. Parlee, Q.C., R. M. Jenkinson.
Name of Secretary-Treasurer: Robert M. Jenkinson.
Head Office: 410 Tegler Building, Edmonton, Alberta.
Mine Office: Luscar, Alberta.
General Manager: David B. Young.
Mine Manager: Duncan C. Hamilton.
Mine Surveyor: Duncan C. Hamilton.
Overman: Wm. Thomas.
Foremen: A. Wright, D. Stock, Ted Bartsch.
Firebosses: Alex Stene, Richard Davies.
Thickness of Seam: 35 ft.
Thickness of Cover: 50 to 150 ft.
Inclination of Seam: 60 degrees.
Form of Opening: Drift and Strip Mine.
Location of Mine: L.S. 7, Sec. 23, Twp. 47, Rge. 24, W. 5th Mer.
Coal Mining Lease Number: 5213.
C.N.R. and Truck Mine.
Registered Trade Name: Luscar Coal and Luscar Briquettes.
Character of Coal: Bituminous.
Date of Opening: 1921.

NORDEGG AREA

Brazeau Collieries Limited—Mine No. 256

Authorized Capital: $4,000,000.00.
Name of President: J. A. Boyd.
Name of Directors: J. A. Boyd, H. S. Gausby, A. D. Sturrock, P. Lash, and C. R. T. Cunningham.
Name of Secretary-Treasurer: H. S. Gausby
Head Office: 1720 - 25 King Street West, Toronto 1, Ontario.
Mine Office: Nordegg, Alberta.
General Manager: A. D. Sturrock.
Mine Manager: Z. D'Amico.
Mine Surveyor: E. Belik.
Overmen: D. Duncan, J. Hall, H. Evans, A. Blasetti.
Firebosses: J. S. Barton, G. B. Minue, R. Jahelka, J. Smillie, A. Emblau, E. Karashowsky, F. Rich, F. Marasco, J. China, S. Quaife, M. Honeymah.
Thickness of Seams: No. 2 Seam: 6 ft. No. 3 Seam: 16 ft.
Thickness of Covers: No. 2 Seam: 293 ft. No. 3 Seam: 314 ft.
Inclination of Seam: 12 degrees.
Form of Opening: Slope. Size of Slope: No. 2 Seam: 12 ft. x 6 ft. No. 3 Seam: 13 ft. x 12 ft. Depth of Slope: 4,000 ft.
Location of Mine: Twp. 40, Rge. 15, W. 5th Mer.
Coal Mining Lease Numbers: 6126, 6127, 5645.
C.N.R. and C.P.R. Mine.
Registered Trade Name: Brazeau Bituminous Steel Coal.
Character of Coal: Bituminous.
Date of Opening: 1910.

OLDMAN AREA

Willow Valley Coal Co.—Mine No. 1733

Mine Office: Bellevue, Alberta.
Mine Manager: B. Marasek.
Mine Surveyor: R. Glover.
Thickness of Seam: 4 ft. to 12 ft.
Thickness of Cover: 0 to 25 ft.
Inclination of Seam: 25 degrees.
Form of Opening: Strip Mine.
Location of Mine: L.S. 2 & 15, of Secs. 9 & 16, Twp. 10, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: 6038.
Registered Trade Name: Willow Valley Coal.
Character of Coal: Bituminous.
Date of Opening: 1953.

PAKOWKI AREA

M. R. Johnson & E. Davis
Mine No. 1318

Mine Office: Elkwater, Alberta.
Mine Manager: M. R. Johnson.
Mine Surveyor: E. A. Ashburner.
Overman: M. R. Johnson.
Thickness of Seam: 5 ft. 7 in.
Thickness of Cover: 0 to 200 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 10, Sec. 23, Twp. 8, Rge. 3, W. 4th Mer.
Coal Mining Lease Number: 2890.
Truck Mine.
Registered Trade Name: Elkwater Lake Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1929.

PEKISKO AREA

Ideal Coal Company—Mine No. 1516

Name of President: Frederick L. Irving.
Name of Directors: F. L. Irving, D. F. Irving, P. M. Ramsay.
Name of Secretary-Treasurer: P. M. Ramsay.
Head Office: 604 Maclean Block, Calgary, Alberta.
Mine Office: Priddis, Alberta.
Mine Manager: P. M. Ramsay.
Mine Surveyor: W. E. G. Hall.
Overman: Thomas Coulter.
Thickness of Seam: 3 ft. to 6 ft.
Thickness of Cover: 90 ft.
Inclination of Seam: 13 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 228 ft.
Location of Mine: L.S. 11, Sec. 4, Twp. 22, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: 5614.

C.P.R. and Truck Mine.
Registered Trade Name: Ideal Coal.
Character of Coal: Bituminous.
Date of Opening: 1937.

PEMBINA AREA

Alberta Southern Coal Co. Ltd.
Mine No. 419

Authorized Capital: $20,000.00.
Name of President: C. C. Cook.
Name of Directors: Fred Mannix, C. C. Cook, S. I. Fraser, M. M. McDonald.
Name of Secretary: Everett Costello.
Name of Treasurer: Eric Connelly.
Head Office: Taber, Alberta.
Mine Office: Wabamun, Alberta.
General Manager: C. C. Cook.
Mine Manager: John Vivyurcka.
Mine Surveyor: P. Buesnel.
Foreman: E. A. Bryant.
Thickness of Seam: 13½ ft.
Thickness of Cover: 45 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16 of Sec. 9, Twp. 53, Rge. 4, W. 5th Mer.
Coal Mining Lease Numbers: C.P.R. 572, 663.
C.N.R. and Truck Mine.
Registered Trade Name: Victory Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1913.

Pembina Collieries Ltd.—Mine No. 1495

Mine Office: Entwistle, Alberta.
Mine Manager: C. Ostertag.
Mine Surveyor: L. C. Stevens.
Foreman: C. Ostertag.
Thickness of Seam: 4½ ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening—Strip Mine.
Location of Mine: N.W. ¼ of Sec. 34, Twp. 53, Rge. 7, W. 5th Mer.
Coal Mining Lease Number: C.S. 238.
Truck Mine.
Registered Trade Name: Pembina Peerless Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1936.

Mount Royal Collieries Ltd.—Mine No. 1592

Name of President: Russell E. Wood.
Name of Directors: George Cristall, C. D. McKinnon, R. E. Wood, Edith McKinnon, Doris McKinnon, C. Becker.
Name of Secretary: C. Becker, Q.C.
Head Office: 313 McLeod Building, Edmonton, Alberta.
Mine Office: Seba Beach.
Mine Manager: R. E. Wood.
Mine Surveyor: David Jones.
Thickness of Seam: 9½ ft. to 17 ft.
Thickness of Cover: 15 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 4, Sec. 29, Twp. 52, Rge. 4, W. 5th Mer.
Coal Mining Lease Number: 5442.
C.N.R. and Truck Mine.
Registered Trade Name: Sun Glow Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1943.

Strawberry Creek Coal Company Limited
Mine No. 1644

Authorized Capital: $20,000.00.
Name of President: L. G. Karsay.
Name of Directors: L. G. Karsay, Joseph Balga, Elaine Liba.
Name of Secretary-Treasurer: Elaine Liba.
Mine Office: Warburg, Alberta.
Mine Manager: L. G. Karsay.
Mine Surveyor: David Jones.
Foreman: Florian Petruch.
Thickness of Seam: 4 ft.
Thickness of Cover: 20 ft. to 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16 of Sec. 13, Twp. 49, Rge. 3, W. 5th Mer.
Coal Mining Lease Number: C.P.R. 617.
Truck Mine.
Registered Trade Name: Strawberry Creek Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1946.

Warburg Coal Co.—Mine No. 1670

Authorized Capital: $75,000.00.
Mine Office: Warburg, Alberta.
Mine Manager: G. Martin.
Mine Surveyor: D. Jones.
Foreman: G. Martin.
Thickness of Seam: 2½ ft.
Thickness of Cover: 12 ft. to 15 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1 of Sec. 24 and L.S. 14 of Sec. 13, Twp. 49, Rge. 3, W. 5th Mer.
Coal Mining Lease Numbers: C.P.R. 656, 688.
C.P.R. Mine.
Registered Trade Name: Pinter Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1948.

Chris Mertz—Mine No. 1690

Mine Office: Telfordville, Alberta.
Mine Manager: C. Mertz.
Mine Surveyor: David Jones.
Overman: C. Mertz.
Thickness of Seam: 6 ft. to 8 ft.
Thickness of Cover: 32 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 4, 5, 6, 11 and 12 of Sec. 8, Twp. 50, Rge. 6, W. 5th Mer.
Coal Mining Lease Number: 5700.
Truck Mine.
Registered Trade Name: Tomahawk Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1949.

F. Fodor and W. Fodor—Mine No. 1712

Mine Office: Warburg, Alberta.
Mine Manager: Frank Fodor.
Mine Surveyor: David Jones.
Foreman: Frank Fodor.
Thickness of Seam: 4 ft.
Thickness of Cover: 17 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N.W. ¼ L.S. 12 of Sec. 20, Twp. 49, Rge. 2, W. 5th Mer.
Coal Mining Lease Number: 5934.
Truck Mine.
Registered Trade Name: Fodor Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1950.

PINCHER AREA

Rhodes Mining Co.—Mine No. 1440

Mine Office: Lundbreck, Alberta.
Mine Manager: W. B. Rhodes.
Overman: W. B. Rhodes.
Thickness of Seam: 12 in.
Inclination of Seam: 70 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 7 ft. Depth of Slope: 81 ft.
Location of Mine: L.S. 10 of Sec. 26, Twp. 7, Rge. 2, W. 5th Mer.
Coal Mining Lease Number: Freehold.
Truck Mine.
Registered Trade Name: Quick Flame Coal.
Character of Coal: Bituminous.
Date of Opening: 1933.

PRAIRIE CREEK AREA

H. Schnur & Partners—Mine No. 1714

Mine Office: Hinton, Alberta.
Mine Manager: H. Schnur.
Mine Surveyor: Bob Dunn.
Overman: H. Schnur.
Thickness of Seam: 5 ft.

Thickness of Cover: 37 ft.
Inclination of Seam: 16 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 9 ft. Depth of Slope: 100 ft.
Location of Mine: L.S. 7 of Sec. 11, Twp. 51, Rge. 25, W. 5th Mer.
Coal Mining Lease Number: 5924.
C.N.R., C.P.R. and Truck Mine.
Registered Trade Name: Industrial Coal.
Character of Coal: Bituminous.
Date of Opening: 1950.

REDCLIFF AREA

Ajax Coal Company—Mine No. 772

Mine Office: Medicine Hat, Alberta.
Mine Manager: R. Radke.
Mine Surveyor: J. F. Hamilton.
Overman: Robert Stratton.
Thickness of Seam: 7½ ft.
Thickness of Cover: 35 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 2 of Sec. 5, Twp. 13, Rge. 6, W. 4th Mer.
Coal Mining Lease Number: C.P.R.
C.P.R. and Truck Mine.
Registered Trade Name: Ajax Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1918.

SAUNDERS AREA

Alexo Coal Company Ltd.—Mine No. 852

Authorized Capital: $200,000.00.
Name of President: P. F. Pullen.
Name of Directors: P. F. Pullen, E. G. Pullen, F. Pullen, C. C. Clark, P. M. Higgins.
Name of Secretary-Treasurer: E. G. Pullen.
Head Office: Oakville, Ontario.
Mine Office: Alexo, Alberta.
General Manager: P. F. Pullen.
Mine Manager: R. Tennant.
Mine Surveyor: P. F. Pullen.
Overman: L. Gladwin.
Firebosses: A. Pollitt, W. Prokopetz, R. Davidson.
Thickness of Seam: 5 ft.
Thickness of Cover: 560 ft.
Inclination of Seam: 9 degrees.
Form of Opening: Slope. Size of Slope: 6 ft. x 10 ft. Depth of Slope: 2700 ft.
Location of Mine: N.W. ¼ L.S. 9 of Sec. 27, Twp. 40, Rge. 13, W. 5th Mer.
Coal Mining Lease Number: 1570.
C.N.R. Mine.
Registered Trade Name: Alexo and Acorn Saunders Coal.
Character of Coal: Bituminous.
Date of Opening: 1920.

SHEERNESS AREA

Western Dominion Coal Mines Limited Mine No. 443

Authorized Capital: $1,500,000.00.
Name of President: John R. Brodie.
Name of Directors: F. H. Nord, C. F. Doerr, R. W. Wilton, J. R. Brodie.
Name of Secretary-Treasurer: K. John.
Head Office: Taylorton, Saskatchewan.
Mine Office: Sheerness, Alberta.
General Manager: C. F. Doerr.
Mine Manager: R. L. Wood.
Mine Surveyor: David Jones.
Foreman: C. Lamb.
Thickness of Seam: 5 ft.
Thickness of Cover: 15 ft. x 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 1 of Sec. 12, Twp. 29, Rge. 13, W. 4th Mer.
Coal Mining Lease Numbers: 5183, 434, 559, 6116.
C.N.R. and Truck Mine.
Registered Trade Name: Roselyn and Volcano Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1914.

T. G. Ironside & A. Glover—Mine No. 1398

Mine Office: Scapa, Alberta.
Mine Manager: T. G. Ironside.
Mine Surveyor: David Jones.
Foreman: T. G. Ironside.
Thickness of Seam: 3 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 12, Sec. 5, Twp. 34, Rge. 13, W. 4th Mer.
Coal Mining Lease Numbers: 757, 468A C.P.R.
Registered Trade Name: Ironside Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1932.

John Masciangelo & Partners Mine No. 1553

Mine Office: Delia, Alberta.
Mine Manager: John Masciangelo.
Mine Surveyor: David Jones.
Overman: John Masciangelo.
Thickness of Seam: 3 ft. 9 in.
Thickness of Cover: 20 ft. to 50 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 9, 10, 15 and 16 of Sec. 21, Twp. 30, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: 5368.
Registered Trade Name: Blossom Mine Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1939.

Lehigh Coal Co. Ltd.—Mine No. 1597

Authorized Capital: $100,000.00.
Name of President: E. A. Lovett.
Name of Directors: E. A. Lovett, H. R. Narraway, O. I. Gilbert.
Name of Secretary: H. R. Narraway.
Head Office: 1503 - 15th Avenue West, Calgary, Alberta.
Mine Office: Sheerness, Alberta.
Mine Manager: M. B. Embree.
Mine Surveyor: T. Smith.
Foreman: W. B. Ward.
Thickness of Seam: 7½ ft.
Thickness of Cover: 16 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16 of Sec. 12, Twp. 29, Rge. 13, W. 4th Mer.
Coal Mining Lease Numbers: 6095, 5289.
C.N.R. and Truck Mine.
Registered Trade Name: Crystal Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1943.

Lehigh Coal Co. Ltd.—Mine No. 1732

Authorized Capital: $100,000.00.
Name of President: E. A. Lovett.
Name of Directors: E. A. Lovett, H. R. Narraway, O. I. Gilbert.
Name of Secretary: H. R. Narraway.
Head Office: Calgary, Alberta.
Mine Office: Sheerness, Alberta.
Agent: H. R. Narraway.
Thickness of Seam: 6½ ft.
Thickness of Cover: 20 ft. to 45 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 9 of Sec. 18, Twp. 29, Rge. 12, W. 4th Mer.
Coal Mining Lease Number: 6056.
Registered Trade Name: Berry Creek.
Character of Coal: Sub-bituminous.
Date of Opening: 1953.

TABER AREA

Omer J. Malo—Mine No. 228

Authorized Capital: $30,000.00.
Name of President: Omer J. Malo.
Name of Directors: Omer J. Malo, Bernadette Malo.
Name of Secretary-Treasurer: Bernadette Malo.
Mine Office: Taber, Alberta.

Mine Manager: Omer J. Malo.
Mine Surveyor: J. F. Hamilton.
Overman: J. Williams.
Thickness of Seam: 44 inches.
Thickness of Cover: 165 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 1 of Sec. 19, Twp. 10, Rge. 16, W. 4th Mer.
Coal Mining Lease Number: 6029.
Truck Mine.
Registered Trade Name: White Ash Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1910.

C. A. Boughton & Son—Mine No. 672

Mine Office: Bow Island, Alberta.
Mine Manager: C. A. Boughton.
Mine Surveyor: J. F. Hamilton.
Overman: C. A. Boughton.
Thickness of Seam: 6 ft.
Thickness of Cover: 135 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope.
Location of Mine: L.S. 3, Sec. 27, Twp. 12, Rge. 10, W. 4th Mer.
Coal Mining Lease Number: 5353.
Registered Trade Name: Red-Glo Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1916.

D. McCracken & Goering—Mine No. 838

Mine Office: Suffield, Alberta.
Mine Manager: Duncan McCracken.
Mine Surveyor: E. Ashburner.
Overman: D. McCracken.
Thickness of Seam: 5 ft.
Thickness of Cover: 165 ft.
Inclination of Seam: Horizontal.
Form of Opening: Drift.
Location of Mine: L.S. 6 and 7, Sec. 28, Twp. 12, Rge. 10, W. 4th Mer.
Coal Mining Lease Number: 5203.
Truck Mine.
Registered Trade Name: Sunny South Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1919.

Continental Coal Corporation Ltd.
Mine No. 1334

Authorized Capital: $2,000,000.00.
Name of President: Victor W. Campbell.
Name of Directors: Walter Schlosser and Warren Dubois.
Name of Secretary: William Sullivan.
Name of Treasurer: D. S. Williamson.
Mine Office: Grassy Lake, Alberta.
Mine Manager: Victor W. Campbell.
Mine Surveyor: J. F. Hamilton.
Foreman: Vern Reber.
Thickness of Seam: 3 ft.
Thickness of Cover: 21 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 13, Sec. 23, Twp. 9, Rge. 13, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 124.
C.P.R. and Truck Mine.
Registered Trade Name: Mission Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1930.

Alberta Southern Coal Co. Ltd.
Mine No. 1604

Authorized Capital: $20,000.00.
Name of President: C. C. Cook.
Name of Directors: F. Mannix, M. M. McDonald, J. C. Bonny, C. C. Cook.
Name of Secretary-Treasurer: E. W. Costello.
Mine Office: Taber, Alberta.
General Manager: C. C. Cook.
Mine Manager: A. G. Macaulay.
Mine Surveyor: A. G. Macaulay.
Foreman: George Wanner.
Fireboss: George Wanner.
Thickness of Seam: 4 ft.
Thickness of Cover: 36 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Sec. 12, Twp. 10, Rge. 17, W. 4th Mer.
Coal Mining Lease Numbers: M.S. 433, 555.
C.P.R. and Truck Mine.
Registered Trade Name: Southalta Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1943.

TOFIELD AREA

Chappell Brothers—Mine No. 215

Name of Secretary-Treasurer: A. E. Chappell.
Head Office: 11115 - 89th Avenue. Edmonton, Alberta.
Mine Office: Dodds, Alberta.
Mine Manager: A. E. Chappell.
Mine Surveyor: David Jones.
Foreman: Howard Pratt.
Thickness of Seam: 3 ft. to 7 ft.
Thickness of Cover: 12 ft. to 22 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 7 of Sec. 14, Twp. 49, Rge. 18, W. 4th Mer.
Coal Mining Lease Numbers: 5544 and 5545.
C.N.R. and Truck Mine.
Registered Trade Name: Red Flame Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1909.

Tofield Coal Co. Ltd.—Mine No. 252

Authorized Capital: $130,000.00.
Name of President: Claude Gallinger.
Name of Directors: Claude Gallinger, Mrs. Jean Gallinger.
Name of Secretary-Treasurer: Wilbur Gallinger.
Mine Office: Tofield, Alberta.
Mine Manager: Wilbur Gallinger.
Mine Surveyor: D. Jones.
Foreman: Anton Johnson.
Thickness of Seam: 6 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. ½ of Sec. 26, Twp. 50, Rge. 19, W. 4th Mer.
Coal Mining Lease Number: H.B.C.
C.N.R. and Truck Mine.
Registered Trade Name: Headlight Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1910.

Black Nuggett Coal Co. Ltd.
Mine No. 1107

Authorized Capital: $28,000.00.
Name of President: F. L. Irving.
Name of Directors: Charles Ellis, F. L. Irving, D. F. Irving, H. A. Irving.
Name of Secretary-Treasurer: H. A. Irving.
Head Office: 604 Maclean Block, Calgary, Alberta.
Mine Office: Dodds, Alberta.
General Manager: D. F. Irving.
Mine Manager: W. Barclay.
Mine Surveyor: D. Jones.
Foremen: N. Pooke, F. Kinjerski.
Thickness of Seam: 6 ft.
Thickness of Cover: 24 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 11 of Sec. 11, Twp. 49, Rge. 18, W. 4th Mer.
Coal Mining Lease Numbers: 544, 556 S.L.
C.N.R. and Truck Mine.
Registered Trade Name: Hi-Lo Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1923.

Ryley Coal Company Ltd.—Mine No. 1206

Authorized Capital: $6,000.00.
Mine Office: Ryley, Alberta.
Mine Manager: Mike Zacharchuk.
Mine Surveyor: David Jones.
Overman: M. Zacharchuk.
Thickness of Seam: 7 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.

Form of Opening: Slope. Size of Slope: 9 ft. x 7 ft. Depth of Slope: 55 ft.
Location of Mine: L.S. 1 and 8 of Sec. 8, Twp. 49, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: H.B.C. 125.
Truck Mine.
Registered Trade Name: Ryley Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1925.

Christopher Binder—Mine No. 1624

Authorized Capital: $12,000.00.
Mine Office: Ryley, Alberta.
Mine Manager: Chris Binder.
Mine Surveyor: David Jones.
Overman: C. Binder.
Thickness of Seam: 8 ft.
Thickness of Cover: 20 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 8 ft. Depth of Slope: 70 ft.
Location of Mine: L.S. 5, Sec. 9, Twp. 49, Rge. 17, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 613.
Truck Mine.
Registered Trade Name: Ryalta Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1944.

WESTLOCK AREA

John Melesko—Mine No. 1517

Mine Office: Thorhild, Alberta.
Mine Manager: John Melesko.
Mine Surveyor: David Jones.
Foreman: John Melesko.
Thickness of Seam: 4½ ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: N. and S. ½ of L.S. 12 and 13, Sec. 12, Twp. 60, Rge. 21, W. 4th Mer.
Coal Mining Lease Number: 5275.
Truck Mine.
Registered Trade Name: Dandy Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1937.

Picardville Coal Company—Mine No. 1523

Mine Office: Picardville, Alberta.
Mine Manager: A. J. Beardsley.
Mine Surveyor: David Jones.
Foreman: A. J. Beardsley.
Thickness of Seam: 6 ft.
Thickness of Cover: 18 ft. to 37 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: E. ½ of L.S. 8 of Sec. 35, Twp. 58, Rge. 27, W. 4th Mer.
Coal Mining Lease Number: 5567.
Truck Mine.
Registered Trade Name: Picardville Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1945.

North Point Coal Co. Ltd.—Mine No. 1562

Authorized Capital: $30,000.00.
Name of President: L. Kaszuba.
Name of Directors: L. Kaszuba, T. Dombroski.
Name of Secretary: T. Dombroski.
Mine Office: Thorhild, Alberta.
Mine Manager: T. Dombroski.
Mine Surveyor: David Jones.
Foreman: T. Dombroski.
Thickness of Seam: 5 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: L.S. 16 of Sec. 2, Twp. 60, Rge. 21, W. 4th Mer.
Coal Mining Lease Numbers: 5697, S.L. 526.
Truck Mine.
Registered Trade Name: North Point Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1929.

WETASKIWIN AREA

Peter Gill—Mine No. 1534

Mine Office: Thorsby, Alberta.
Mine Manager: Joe Gill.
Mine Surveyor: L. C. Stevens.
Overman: Joe Gill.
Thickness of Seam: 5 ft.
Thickness of Cover: 80 ft.
Inclination of Seam: Horizontal.
Form of Opening: Slope. Size of Slope: 7 ft. x 6 ft. Depth of Slope: 1,000 ft.
Location of Mine: S.E. ¼ of L.S. 2 and 7, Sec. 3, Twp. 48, Rge. 27, W. 4th Mer.
Coal Mining Lease Number: C.P.R. 553A.
Registered Trade Name: Canyon Creek Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1938.

WHITECOURT AREA

Clinton O. Anderson—Mine No. 1348

Mine Office: Greencourt, Alberta.
Mine Manager: Clinton O. Anderson.
Foreman: Clinton O. Anderson.
Thickness of Seam: 4½ ft.
Thickness of Cover: 25 ft.
Location of Mine: L.S. 13 of Sec. 6, Twp. 58, Rge. 9, W. 5th Mer.
Coal Mining Lease Number: 6114.
Registered Trade Name: Anderson Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1931.

Alex Watson—Mine No. 1569

Mine Office: Blue Ridge, Alberta.
Mine Manager: Alex Watson.
Mine Surveyor: David Jones.
Foreman: Alex Watson.
Thickness of Seam: 3½ ft.
Thickness of Cover: 10 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: Pts. L.S. 13 and 12 of Sec. 24, Twp. 59, Rge. 11, W. 5th Mer.
Coal Mining Lease Number: 5354.
Truck Mine.
Registered Trade Name: Blue Ridge Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1940.

NO AREA

Len Collins—Mine No. 1735

Mine Office: Connor Creek, Alberta.
Mine Manager: Earl Lind.
Mine Surveyor: Edward Hughes.
Thickness of Seam: 3 ft.
Thickness of Cover: 12 ft.
Inclination of Seam: Horizontal.
Form of Opening: Strip Mine.
Location of Mine: E. ½ of L.S. 9 and S. ½ of L.S. 16 of Sec. 20, Twp. 59, Rge. 8, W. 5th Mer.
Coal Mining Lease Number: 6129.
Registered Trade Name: Highland Coal.
Character of Coal: Sub-bituminous.
Date of Opening: 1953.

PARTICULARS OF OPERATING QUARRIES DURING 1953 BY AREAS

CASCADE AREA

Canada Cement Company Limited
Quarry No. Q2

Head Office: Canada Cement Co. Bldg., Phillips Square, Montreal 2, Quebec.
Quarry Office: Exshaw, Alberta.
Superintendent: K. E. Alexander.
Quarry Foreman: M. Walker.
Blasters: N. Kwas, R. Callaway.
Type of Mineral Extracted: Limestone.
Purpose Used: Manufacture of Cement.
Thickness of Deposit: 160 ft.
Location of Quarry: Pts. of Secs. 27 & 28, Twp. 24, Rge. 9, W. 5th Mer.
Quarry Lease Number: Q105.
C.P.R. Quarry.
Date of Opening: 1906.

Loder's Lime Company Limited
Quarry No. Q3

Head Office: 117B - 8th Avenue West, Calgary, Alberta.

Quarry Office: Kananaskis, Alberta.

Quarry Manager: G. D. Muir.

Foreman: A. F. Mills.

Type of Mineral Extracted: Limestone.

Purpose Used: Manufacture of Lime and High Calcium Products.

Thickness of Deposit: 75 ft.

Location of Quarry: L.S. 5 & 7 of Sec. 25, Twp. 24, Rge. 9, W. 5th Mer.

Quarry Lease Numbers: Q126 and Freehold.

C.P.R. and Truck Quarry.

Date of Opening: 1906.

CROWSNEST AREA

Summit Lime Works Limited
Quarry No. Q8

Head Office: Box 273, Lethbridge, Alta.

Quarry Office: Crowsnest, British Columbia.

General Manager: John Grubisich.

Foreman: John Grubisich.

Blasters: C. Vidakovic, M. Dordevic.
Type of Mineral Extracted: Limestone.
Purpose Used: Quicklime, Hydrated Lime, Feed Grits, Commercial Limestone.
Thickness of Deposit: 100 ft. to 200 ft.
Thickness of Overburden: 0 to 30 ft.
Location of Quarry: L.S. 7 of Sec. 7, Twp. 8, Rge. 5, W. 5th Mer.
C.P.R. Quarry.
Date of Opening: 1920.

EDMONTON AREA

J. B. Little & Sons Ltd.
Quarry No. Q1

Quarry Office: 9120 - 100 Avenue, Edmonton, Alberta.
Quarry Manager: David Little.
Foreman: David Little.
Type of Mineral Extracted: Clay.
Purpose Used: Brick Making.
Thickness of Deposit: 15 ft.
Thickness of Overburden: 1 ft.
Location of Quarry: Blk. A and B.R.L. 20 in Twp. 53, Rge. 24, W. 4th Mer.
C.P.R. Quarry.
Date of Opening: 1893.

HALCOURT AREA

K. J. Dalen—Quarry No. Q16

Quarry Office: Box 1722, Grande Prairie, Alberta.
Quarry Manager: K. J. Dalen.
Foreman: K. J. Dalen.
Type of Mineral Extracted: Clay.
Purpose Used: Brick Making.
Thickness of Deposit: 6 ft.
Thickness of Overburden: 6 inches.
Location of Quarry: N.E. ¼ of Sec. 14, Twp. 71, Rge. 6, W. 6th Mer.
N.A.R. and Truck Quarry.
Date of Opening: 1951.

REDCLIFF AREA

Gunderson Brick & Coal Co. Ltd.
Quarry No. Q4

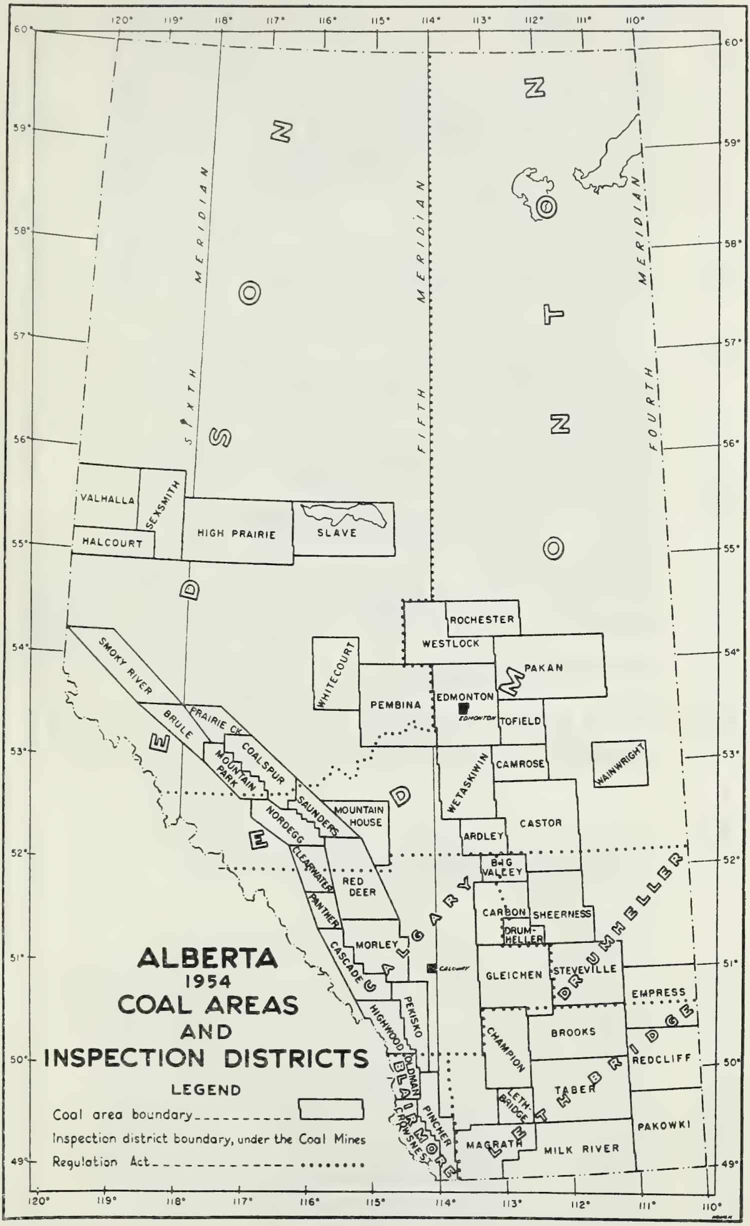
Quarry Office: Redcliff, Alberta.
Quarry Manager: J. A. Perry.
Blaster: George Ross.
Type of Mineral Extracted: Clay.
Purpose Used: Brick and Tile Manufacture.
Thickness of Deposit: 50 ft.
Location of Quarry: L.S. 11 & 15, Sec. 5, Twp. 13, Rge. 6, W. 4th Mer.
C.N.R., C.P.R. and Truck Quarry.
Date of Opening: 1908.

Redcliff Pressed Brick Co. Ltd.
Quarry No. Q7

Quarry Office: Redcliff, Alberta.
General Manager: G. H. Sissons.
Quarry Manager: R. Pedersen.
Foreman: R. Pedersen.
Blaster: R. Pedersen.
Type of Mineral Extracted: Clay.
Purpose Used: Brick manufacture.
Thickness of Deposit: 80 ft.
Location of Quarry: S.W. ¼ of Sec. 9, Twp. 13, Rge. 6, W. 4th Mer.
C.P.R. and Truck Quarry.
Date of Opening: 1913.

Medicine Hat Brick & Tile Co. Ltd.
Quarry No. Q14

Quarry Office: Medicine Hat, Alberta.
Quarry Manager: Gordon H. Sissons.
Foreman: Cecil Crockford.
Type of Mineral Extracted: Clay.
Purpose Used: Brick and Tile manufacture.
Thickness of Deposit: 50 ft.
Thickness of Overburden: 27 ft.
Location of Quarry: L.S. 1 of Sec. 31, Twp. 12, Rge. 4, W. 4th Mer.
Truck Quarry.
Date of Opening: 1950.


ALBERTA
1954
COAL AREAS
AND
INSPECTION DISTRICTS
LEGEND
Coal area boundary
Inspection district boundary, under the Coal Mines Regulation Act
SIXTH MERIDIAN
FIFTH MERIDIAN
FOURTH MERIDIAN
EDSON
EDMONTON
CALGARY
DRUMHELLER
LETHBRIDGE
BLAIRMORE
ZONE
VALHALLA
SEXSMITH
HALCOURT
HIGH PRAIRIE
SLAVE
ROCHESTER
WESTLOCK
PAKAN
WHITECOURT
PEMBINA
EDMONTON
TOFIELD
SMOKY RIVER
PRAIRIE CK.
BRULE
COALSPUR
MOUNTAIN PARK
WETASKIWIN
CAMROSE
WAINWRIGHT
SAUNDERS
NORDEGG
MOUNTAIN HOUSE
CASTOR
ARDLEY
BIG VALLEY
CLEARWATER
RED DEER
PANTHER
CARBON
SHEERNESS
DRUM-HELLER
MORLEY
CASCADE
CALGARY
GLEICHEN
STEVEVILLE
EMPRESS
PEKISKO
HIGHWOOD
CHAMPION
BROOKS
REDCLIFF
OLDMAN
TABER
LETH-BRIDGE
PINCHER
CROWSNEST
MAGRATH
MILK RIVER
PAKOWKI
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119°
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116°
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113°
112°
111°
110°

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